

1 / 28

1 TTTCTCACTATATAAAGAATAGAGAAAGGAGGGCTTCAGTGACCGGCTGCCCTGGCTGACTTACAGCAGTCAGACTCTGACAGGATC
 1 ATGGCTATGATGGAGGTCCAGGGGGACCCAGCCTGGGACAGACCTGGCTGATCGTGATCTTCACAGTGCTCCTGCAGTCTCTCTGT
 1 MetAlaMetMetGluValGlnGlyGlyProSerLeuGlyGlnThrCysValLeuIleValIlePheThrValLeuLeuGlnSerLeuCys
 181 GTGGCTGTAACCTTACGTGTACTTTACCAACGAGCTGAAGCAGATGCAGGACAAGTACTCCAAAAGTGGCATTTGTTTCTTTAAAAGAA
 31 ValAlaValThrTyrValTyrPheThrAsnGluLeuLysGlnMetGlnAspLysTyrSerLysSerGlyIleAlaCysPheLeuLysGlu
 271 GATGACAGTTATTGGGACCCCAATGACGAAGAGAGATATGAACAGCCCCCTGCTGGCAAGTCAAGTGGCAACTCCCGTCAGCTCGTTAGAAAG
 61 AspAspSerTyrTrpAspProAsnAspGluSerMetAsnSerProCysTrpGlnValLysTrpGlnLeuArgGlnLeuValArgLys
 161 ATGATTTTGAGAACCTCTGAGGAAACCATTTCTACAGTTCAAGAAAGCAACAATAATTTCTCCCTAGTGAGAGAAAGAGGTCCTCCNCAG
 91 MetIleLeuArgThrSerGluGluThrIleSerThrValGlnGluLysGlnGlnAsnIleSerProLeuValArgGluArgGlyProGln
 151 AGAGTAGCAGCTCACATAACTGGGACCCAGAGGAAGCAACACATTTGTCTTCTCCAAACTCCAAGAATGAAAAGGCTCTGGGCCGCAAA
 121 ArgValAlaAlaHisIleThrGlyThrArgGlyArgSerAsnThrLeuSerSerProAsnSerLysAsnGluLysAlaLeuGlyArgLys
 141 ATAAACTCCTGGGAATCATCAAGGAGTGGGCATTCATCTGAGCAACTTGACGAATGGTGAACCTGGTCACTCCCATGAAAAGGG
 151 IleAsnSerTrpGluSerSerArgSerGlyHisSerPheLeuSerAsnLeuHisLeuArgAsnGlyGluLeuValIleHisGluLysGly
 171 TTTTACTACATCTATTCCCAACATACTTTTCGATTTTCAGGAGGAAATAAAGAAACACAAAGAACGACAAACAAATGGTCCAATATATT
 181 PheTyrTyrIleTyrSerGlnThrTyrPheArgPheGlnGluIleLysGluAsnThrLysAsnAspLysGlnMetValGlnTyrIle
 191 TyrLysTyrThrSerTyrProAspProIleLeuLeuMetLysSerAlaArgAsnSerCysTrpSerLysAspAlaGluTyrGlyLeuTyr
 201 TCCATCTATCAAGGGGAATATTGAGCTTAAGGAAATGACAGAAATTTTGTCTGTAAACAAATGAGCAGCTTGTATAGACATGGACCAT
 211 SerIleTyrGlnGlyGlyIlePheGluLeuLysGluAsnAspArgIlePheValSerValThrAsnGluHisLeuIleAspMetAspHis
 221 GAAAGCCAGTTTTTTCGGGGCCTTTTGTAGTTGGCTAACTGACCTGGAAAGAAAAGCAATAACCTCAAAGTGACTATTTCAGTTTTCAGGAT
 231 GluAlaSerPhePheGlyAlaPheLeuValGlyStp
 241 GATACACTATGAAGATGTTTCAAAAATCTGACCACAAACAAACACAGAAA

FIG. 1

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2 / 28

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1  ATGGCGCCAC  CACCAGCTAG  AGTACATCTA  GGTGCGTTCC  TGGCAGTGAC
   TACCGCGGTG  GTGGTCGATC  TCATGTAGAT  CCACGCAAGG  ACCGTCACTG
1  MetAlaProp  roProAlaAr  gValHisLeu  GlyAlaPheL  euAlaValTh

51  TCCGAATCCC  GGGAGCGCAG  CGAGTGGGAC  AGAGGCAGCC  GCGGCCACAC
   AGGCTTAGGG  CCCTCGCGTC  GCTCACCTG  TCTCCGTCGG  CGCCGGTGTG
   rProAsnPro  GlySerAlaA  laSerGlyTh  rGluAlaAla  AlaAlaThrPro

101  CCAGCAAAGT  GTGGGGCTCT  TCCGCGGGGA  GGATTGAACC  ACGAGGCGGG
   GGTCGTTTCA  CACCCCGAGA  AGGCGCCCT  CCTAACTTGG  TGCTCCGCCC
35   SerLysVa  lTrpGlySer  SerAlaGlyA  rgIleGluPr  oArgGlyGly

151  GGCCGAGGAG  CGCTCCCTAC  CTCCATGGGA  CAGCACGGAC  CCAGTGCCCG
   CCGGCTCCTC  GCGAGGGATG  GAGGTACCCT  GTCGTGCCTG  GGTCACGGGC
   GlyArgGlyA  laLeuProTh  rSerMetGly  GlnHisGlyP  roSerAlaArg

201  GGCCCGGGCA  GGGCGCGCCC  CAGGACCCAG  GCCGGCGCGG  GAAGCCAGCC
   CCGGGCCCGT  CCCGCGCGGG  GTCCTGGGTC  CGGCCGCGCC  CTTCCGTCCG
68   AlaArgAla  GlyArgAlaP  roGlyProAr  gProAlaArg  GluAlaSerP

251  CTCGGCTCCG  GGTCCACAAG  ACCTTCAAGT  TTGTCGTCGT  CGGGGTCCTG
   GAGCCGAGGC  CCAGGTGTTC  TGAAGTTCA  AACAGCAGCA  GCCCCAGGAC
   roArgLeuAr  gValHisLys  ThrPheLysP  heValValVa  lGlyValLeu

301  CTGCAGGTCG  TACCTAGCTC  AGCTGCAACC  ATGATCAATC  AATTGGCACA
   GACGTCCAGC  ATGGATCGAG  TCGACGTTGG  TAGTTTGAAG  TACTAGTTAG
101  LeuGlnValV  alProSerSe  rAlaAlaThr  IleLysLeuH  isAspGlnSe

351  AATTGGCACA  CAGCAATGGG  AACATAGCCC  TTTGGGAGAG  TTGTGTCCAC
   TTAACCGTGT  GTCGTTACCC  TTGTATCGGG  AAACCCTCTC  AACACAGGTG
   rIleGlyThr  GlnGlnTrpG  luHisSerPr  oLeuGlyGlu  LeuCysProPro

401  CAGGATCTCA  TAGATCAGAA  CGTCCTGGAG  CCTGTAACCG  GTGCACAGAG
   GTCCTAGAGT  ATCTAGTCTT  GCAGGACCTC  GGACATTGGC  CACGTGTCTC
135   GlySerHi  sArgSerGlu  ArgProGlyA  laCysAsnAr  gCysThrGlu

451  GGTGTGGGTT  ACACCAATGC  TTCCAACAAT  TTGTTTGCTT  GCCTCCCATG
   CCACACCCAA  TGTGGTTACG  AAGGTTGTTA  AACAAACGAA  CGGAGGGTAC
   GlyValGlyT  yrThrAsnAl  aSerAsnAsn  LeuPheAlaC  ysLeuProCys

501  TACAGCTTGT  AAATCAGATG  AAGAAGAGAG  AAGTCCCTGC  ACCACGACCA
   ATGTCGAACA  TTTAGTCTAC  TTCTTCTCTC  TTCAGGGACG  TGGTGCTGGT
168   ThrAlaCys  LysSerAspG  luGluGluAr  gSerProCys  ThrThrThrA

551  GGAACACAGC  ATGTCAGTGC  AAACCAGGAA  CTTTCCGGAA  TGACAATTCT
   CCTTGTTGTCG  TACAGTCACG  TTTGGTCCTT  GAAAGGCCTT  ACTGTTAAGA
   rgAsnThrAl  aCysGlnCys  LysProGlyT  hrPheArgAs  nAspAsnSer

601  GCTGAGATGT  GCCGGAAGTG  CAGCACAGGG  TGCCCCAGAG  GGATGGTCAA
   CGACTCTACA  CGGCCTTCAC  GTCGTGTCCC  ACGGGGTCTC  CCTACCAGTT
201  AlaGluMetC  ysArgLysCy  sSerThrGly  CysProArgG  lyMetValLy

651  GGTCAAGGAT  TGTACGCCCT  GGAGTGACAT  CGAGTGTGTC  CACAAAGAAT
   CCAGTTCCTA  ACATGCGGGA  CCTCACTGTA  GCTCACACAG  GTGTTTCTTA
   sValLysAsp  CysThrProT  rpSerAspIl  eGluCysVal  HisLysGluSer

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FIG. 2A

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3 / 28

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701 CAGGCAATGG ACATAATATA TGGGTGATTT TGGTTGTGAC TTTGGTTGTT
    GTCCGTTACC TGTATTATAT ACCCACTAAA ACCAACACTG AAACCAACAA
235  GlyAsnG1 yHisAsnIle TrpValIleL euValValTh rLeuValVal
    CCGTTGCTGT TGGTGGCTGT GCTGATTGTC TGTGTTTGCA TCGGCTCAGG
751  GGCAACGACA ACCACCGACA CGACTAACAG ACAACAACGT AGCCGAGTCC
    ProLeuLeuL euValAlaVa lLeuIleVal CysCysCysI leGlySerGly
    TTGTGGAGGG GACCCCAAGT GCATGGACAG GGTGTGTTTC TGGCGCTTGG
801  AACACCTCCC CTGGGGTTCA CGTACCTGTC CCAGACAAAG ACCGCGAACC
268  CysGlyGly AspProLysC ysMetAspAr gValCysPhe TrpArgLeuG
    GTCTCCTACG AGGGCCTGGG GCTGAGGACA ATGCTCACAA CGAGATTCTG
851  CAGAGGATGC TCCCGGACCC CGACTCCTGT TACGAGTGTT GCTCTAAGAC
    lyLeuLeuAr gGlyProGly AlaGluAspA snAlaHisAs nGluIleLeu
    AGCAACGCAG ACTCGCTGTC CACTTTCGTC TCTGAGCAGC AAATGGAAAG
901  TCGTTGCGTC TGAGCGACAG GTGAAAGCAG AGACTCGTCG TTTACCTTTC
301  SerAsnAlaA spSerLeuSe rThrPheVal SerGluGlnG lnMetGluSe
    CCAGGAGCCG GCAGATTTGA CAGGTGTCAC TGTACAGTCC CCAGGGGAGG
951  GGTCTTCGGC CGTCTAAACT GTCCACATGT ACATGTCAGG GGTCCCCTCC
    rGlnGluPro AlaAspLeuT hrGlyValTh rValGlnSer ProGlyGluAla
1001 CACAGTGTCT GCTGGGACCG GCAGAAGCTG AAGGGTCTCA GAGGAGGAGG
    GTGTCACAGA CGACCCTGGC CGTCTTCGAC TTCCAGAGT CTCCTCCTCC
335  GlnCysLe uLeuGlyPro AlaGluAlaG luGlySerGl nArgArgArg
    CTGCTGGTTC CAGCAAATGG TGCTGACCCC ACTGAGACTC TGATGCTGTT
1051  GACGACCAAG GTCGTTTACC ACGACTGGGG TGA CTCTGAG ACTACGACAA
    LeuLeuValP roAlaAsnG1 yAlaAspPro ThrGluThrL euMetLeuPhe
    CTTTGACAAG TTTGCAAACA TCGTGCCCTT TGA CTCTGG GACCAGCTCA
1101  GAAACTGTTC AAACGTTTGT AGCACGGGAA ACTGAGGACC CTGGTCGAGT
368  PheAspLys PheAlaAsnI leValProPh eAspSerTrp AspGlnLeuM
    TGAGGCAGCT GGACCTCACG AAAAATGAGA TCGATGTGGT CAGAGCTGGT
1151  ACTCCGTCGA CCTGGAGTGC TTTTACTCT AGCTACACCA GTCTCGACCA
    etArgGlnLe uAspLeuThr LysAsnGluI leAspValVa lArgAlaGly
1201 ACAGCAGGCC CAGGGGATGC CTTGTATGCA ATGCTGATGA AATGGGTCAA
    TGTCGTCCGG GTCCCCTACG GAACATACGT TACGACTACT TTACCCAGTT
401  ThrAlaGlyP roGlyAspAl aLeuTyrAla MetLeuMetL ysTrpValAs
    CAAAACCTGGA CGGAACGCCT CGATCCACAC CCTGCTGGAT GCCTTGAGGA
1251  GTTTTGACCT GCCTTGCGGA GCTAGGTGTG GGACGACCTA CGGAACCTCT
    nLysThrGly ArgAsnAlaS erIleHisTh rLeuLeuAsp AlaLeuGluArg
    GGATGGAAGA GAGACATGCA AAAGAGAAGA TTCAGGACCT CTTGGTGGAC
1301  CCTACCTTCT CTCTGTACGT TTTCTCTTCT AAGTCCTGGA GAACCACTG
435  MetGluG1 uArgHisAla LysGluLysI leGlnAspLe uLeuValAsp
    TCTGGAAAGT TCATCTACTT AGAAGATGGC ACAGGCTCTG CCGTGTCTT
1351  AGACCTTTCA AGTAGATGAA TCTTCTACCG TGTCCGAGAC GGCACAGGAA
    SerGlyLysP heIleTyrLe uGluAspGly ThrGlySerA laValSerLeu
1401 GGAGTGA
    CCTCACT
468  GluOP*

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FIG._2B

4 / 28

1 MEQRGQNAPAASGARKRHGPGPREARGARPGLRVPKTLVLVVAAVLLLVSAESALITQQD
61 LAPQQRAAPQQKRSSPSEGLCPPGHHISEDGRDCISCKYQDYSTHWNDLLFCLRCTRCD
121 SGEVELSPCTTTTRNTVCQCEEGTFREEDSPEMCRKCRTGCPRGMVKVGDCTPWSDIECVH
181 KESGIIIGVTVAAVVLIVAVFVCKSLLWKKVLPYLKGICSGGGGDPERVDRSSQRPGAED
241 NVLNEIVSILQPTQVPEQEMEVQEPAEPTGVNMLSPGESEHLLEPAEAERSQRRRLVPA
301 NEGDPTETLRQCFDDFADLVFFDSWEPLMRKLGMDNEIKVAKAEAAGHRDTLYTMLIKW
361 VNKTGRDASVHTLLDAETLGERIAKQKIEDHLLSSGKFMYLEGNADSALS

FIG. 3A

5 / 28

Met	Glu	Gln	Arg	Gly	Gln	Asn	Ala	Pro	Ala	Ala	Ser	Gly	Ala	Arg	Lys	1	5	10	15
Arg	His	Gly	Pro	Gly	Pro	Arg	Glu	Ala	Arg	Gly	Ala	Arg	Pro	Gly	Pro	20	25	30	
Arg	Val	Pro	Lys	Thr	Leu	Val	Leu	Val	Val	Ala	Ala	Val	Leu	Leu	Leu	35	40	45	
Val	Ser	Ala	Glu	Ser	Ala	Leu	Ile	Thr	Gln	Gln	Asp	Leu	Ala	Pro	Gln	50	55	60	
Gln	Arg	Ala	Ala	Pro	Gln	Gln	Lys	Arg	Ser	Ser	Pro	Ser	Glu	Gly	Leu	65	70	75	80
Cys	Pro	Pro	Gly	His	His	Ile	Ser	Glu	Asp	Gly	Arg	Asp	Cys	Ile	Ser	85	90	95	
Cys	Lys	Tyr	Gly	Gln	Asp	Tyr	Ser	Thr	His	Trp	Asn	Asp	Leu	Leu	Phe	100	105	110	
Cys	Leu	Arg	Cys	Thr	Arg	Cys	Asp	Ser	Gly	Glu	Val	Glu	Leu	Ser	Pro	115	120	125	
Cys	Thr	Thr	Thr	Arg	Asn	Thr	Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe	130	135	140	
Arg	Glu	Glu	Asp	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	145	150	155	160
Pro	Arg	Gly	Met	Val	Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	165	170	175	
Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Thr	Lys	His	Ser	Gly	Glu	Ala	Pro	180	185	190	
Ala	Val	Glu	Glu	Thr	Val	Thr	Ser	Ser	Pro	Gly	Thr	Pro	Ala	Ser	Pro	195	200	205	
Cys	Ser	Leu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala	Ala	Val	Val	210	215	220	
Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp	Lys	Lys	Val	225	230	235	240
Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly	Asp	Pro	Glu	245	250	255	
Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp	Asn	Val	Leu	260	265	270	
Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	Pro	Glu	Gln	Glu	275	280	285	

FIG. 3B

6 / 28

Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	Val	Asn	Met	Leu	Ser			
	290					295					300							
Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	Ala	Glu	Ala	Glu	Arg	Ser			
305					310					315					320			
Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	Asn	Glu	Gly	Asp	Pro	Thr	Glu			
				325					330					335				
Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	Phe	Ala	Asp	Leu	Val	Pro	Phe	Asp			
			340					345					350					
Ser	Trp	Glu	Pro	Leu	Met	Arg	Lys	Leu	Gly	Leu	Met	Asp	Asn	Glu	Ile			
	355						360					365						
Lys	Val	Ala	Lys	Ala	Glu	Ala	Ala	Gly	His	Arg	Asp	Thr	Leu	Tyr	Thr			
	370					375					380							
Met	Leu	Ile	Lys	Trp	Val	Asn	Lys	Thr	Gly	Arg	Asp	Ala	Ser	Val	His			
385					390					395					400			
Thr	Leu	Leu	Asp	Ala	Leu	Glu	Thr	Leu	Gly	Glu	Arg	Leu	Ala	Lys	Gln			
				405					410					415				
Lys	Ile	Glu	Asp	His	Leu	Leu	Ser	Ser	Gly	Lys	Phe	Met	Tyr	Leu	Glu			
			420					425					430					
Gly	Asn	Ala	Asp	Ser	Ala	Met	Ser											
	435						440											

FIG._3C

7 / 28

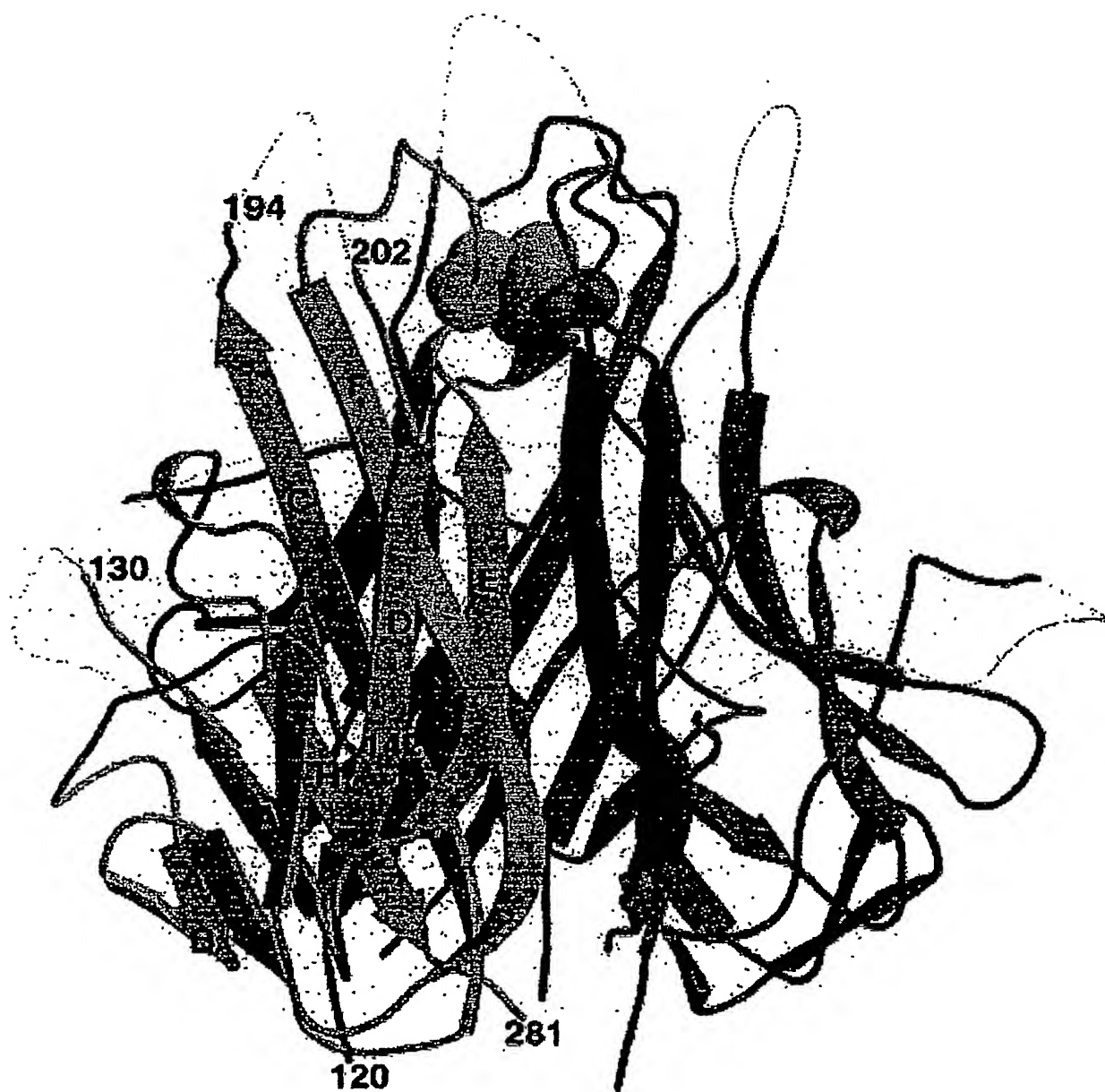


FIG. 4A

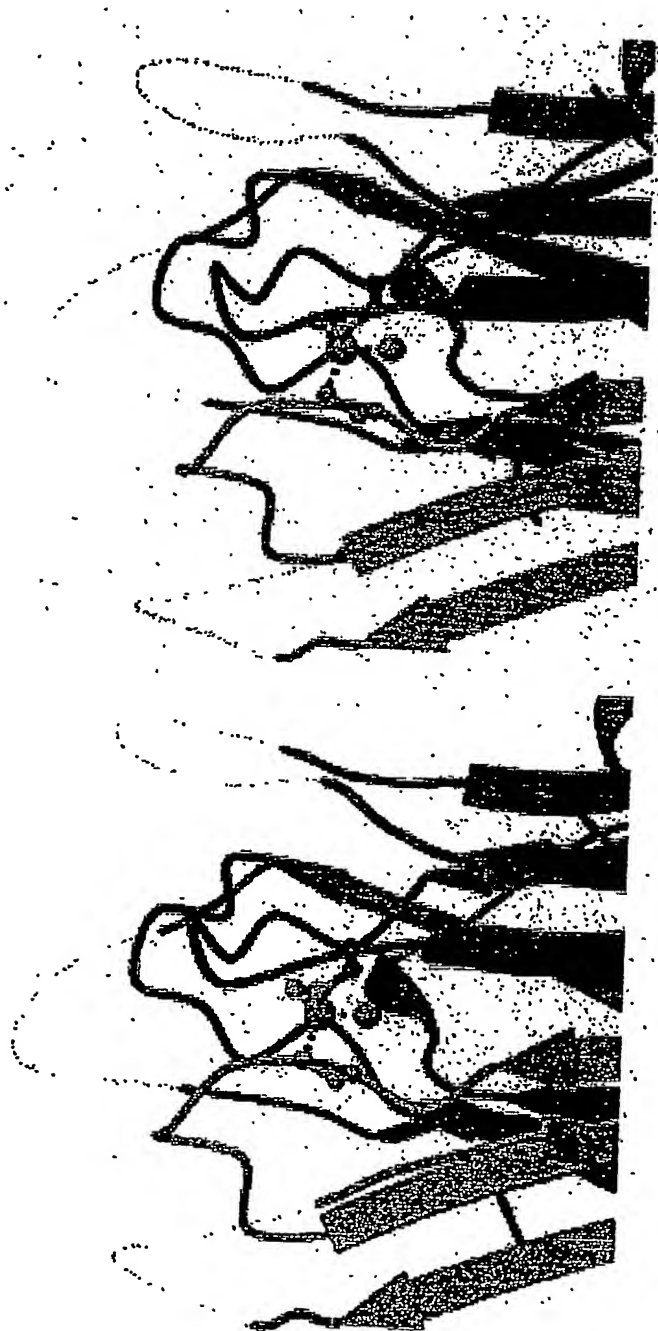


FIG. 4B

9 / 28

Crystallographic Data

	<u>Apo-2L (114-281)</u>	<u>Apo-2L (91-281) D218A</u>	<u>Apo-2L (91-281) D218A</u>
Crystal			
Space Group	P6 ₃	R32	R32
Unit Cell (Å)	a=72.5 c=140	a=66.4 c=197.6	a=66.4 c=197.7
Resolution (Å)	3.9	1.9	1.3
Coverage (%)	94 (96)	93 (99)	100 (100)
<I/σ(I)>	5.9	10.1	12.4
# Unique (hkl)	3589	12680	41840
Redundancy	4.9	4.3	12.1
R _{symm} (%)	15.4 (34)	6.2 (27)	6.4 (34)
# Protomers in ASU	2	1	1
Refinement			
R _{cryst} (%)	33.8	20	
R _{free} (%)	27.6	22	
rmsd Bonds (Å)	0.009	0.015	0.007
rmsd Angles (°)	1.79	2.0	1.41
Average B-Values	—	14	14
# Water Molecules	0	170	

$R_{\text{symm}} = \sum_h \sum_i (I_{hi} - \langle I_h \rangle) / \sum_h I$ where I_h is the mean structure factor intensity of i observations of symmetry-related reflections with Bragg index h . $R_{\text{cryst}} = \sum_h \sum_i |F_{\text{obs}} - F_{\text{calc}}| / \sum_i |F_{\text{obs}}|$ where F_{obs} and F_{calc} are the observed and calculated structure factor amplitudes. $R_{\text{free}} = \sum_{(hkl) \in \tau} |F_{\text{obs}}(hkl) - k F_{\text{calc}}(hkl)| / \sum_{(hkl) \in \tau} |F_{\text{obs}}(hkl)|$ where the τ set of reflections is omitted from the refinement process. 10% of the data were included in the τ set for calculation of R_{free} and not included in refinement. Values in parenthesis are for the highest resolution shell.

FIG. 4C

10/28

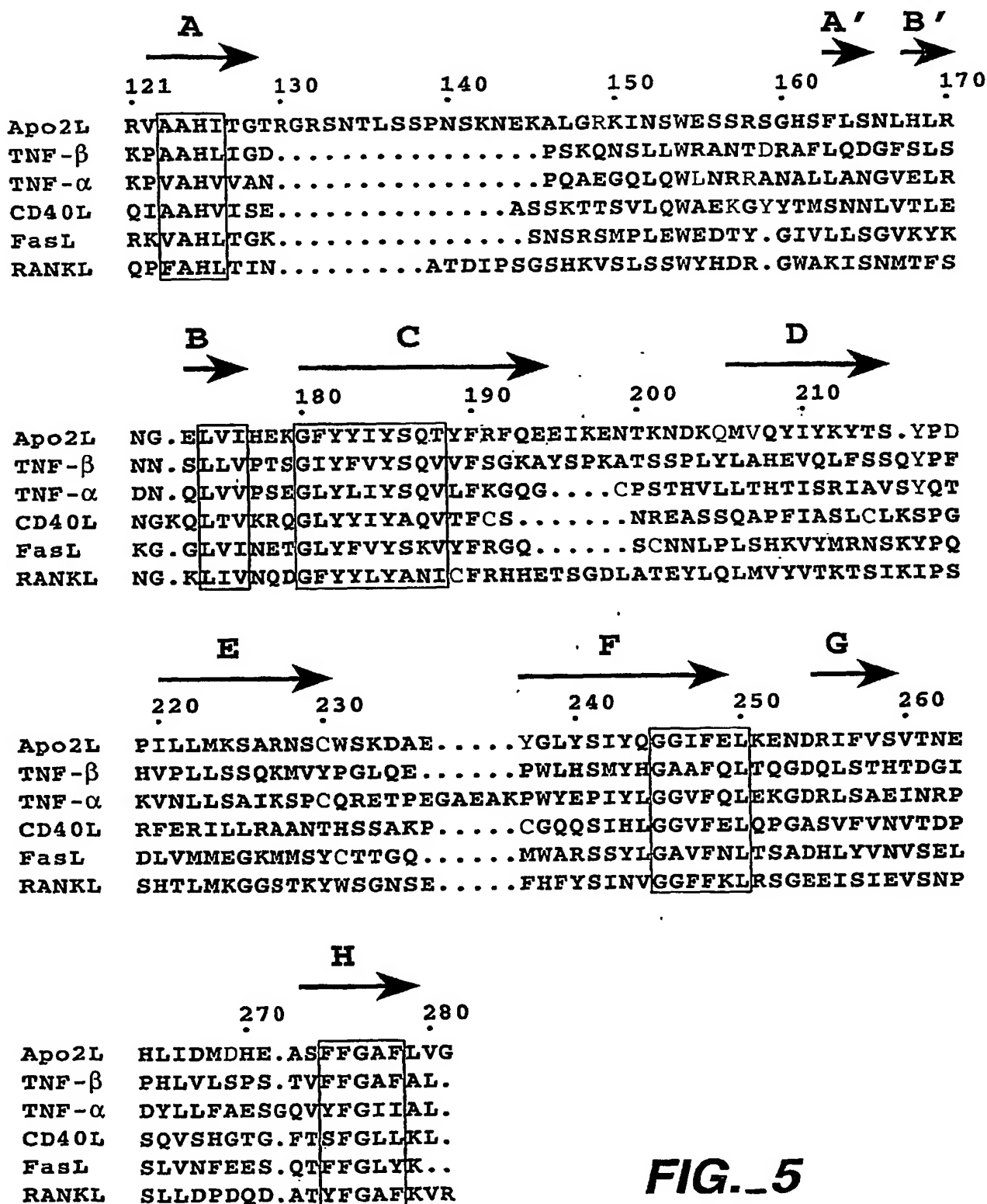


FIG. 5

11 / 28

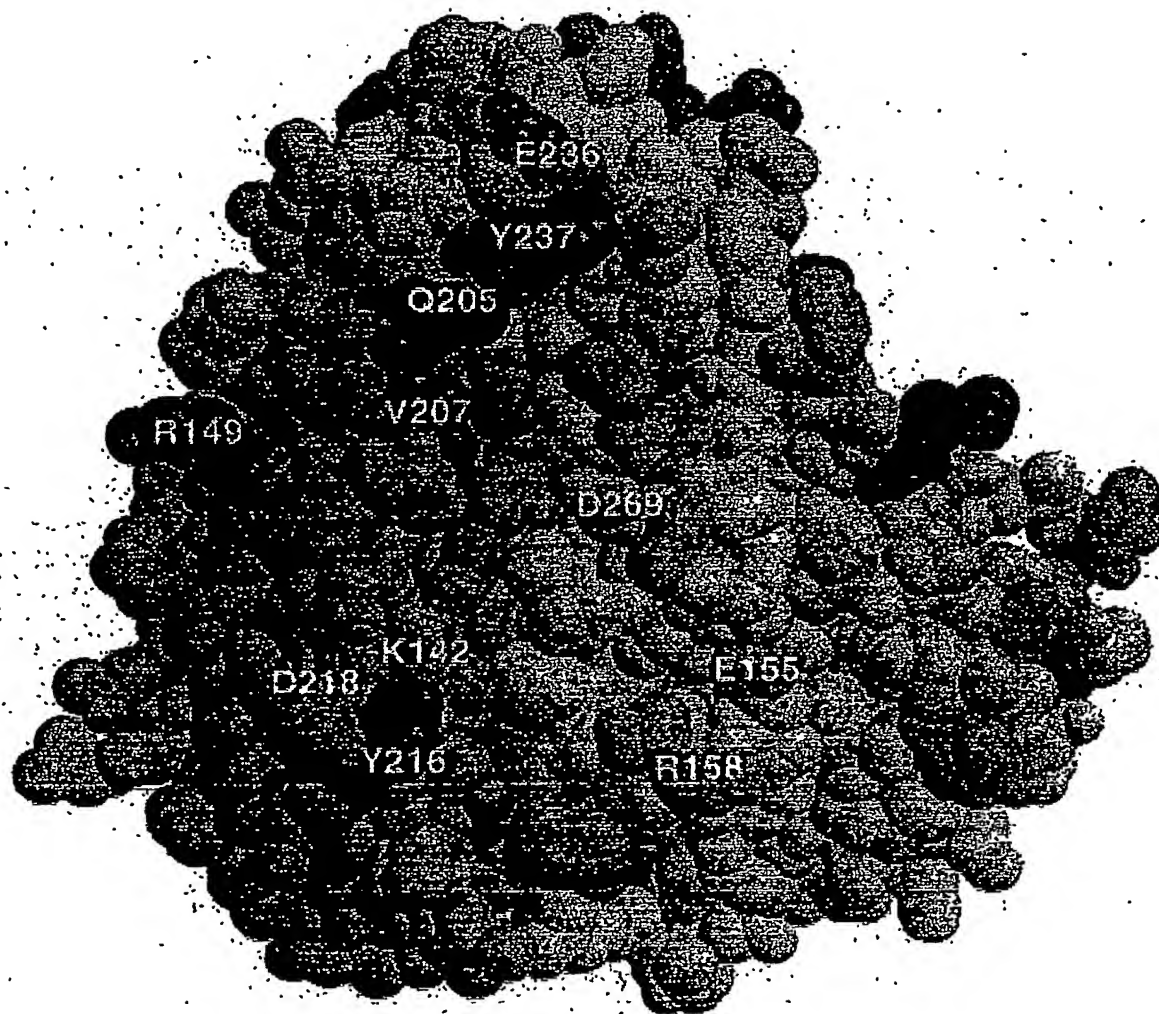
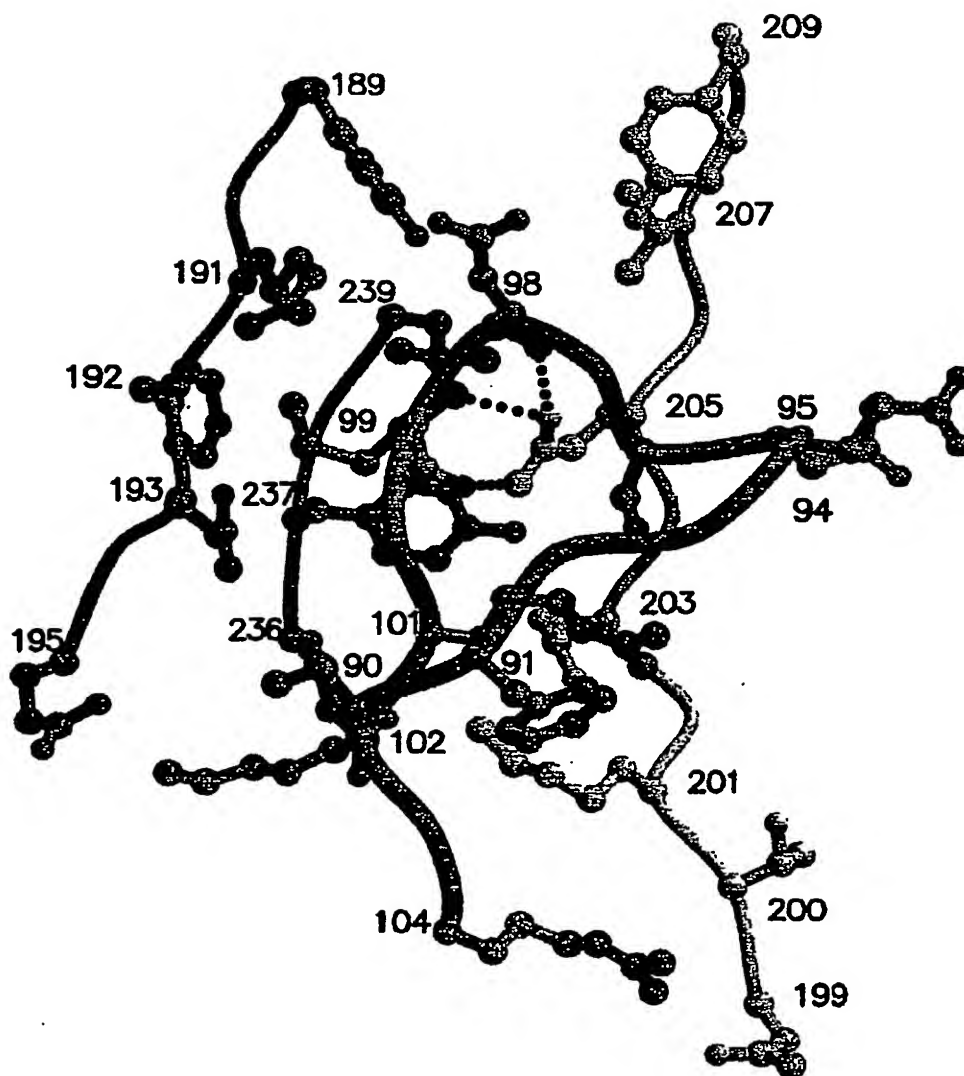


FIG._6

12 / 28

Apo2L • DR5 Patch A

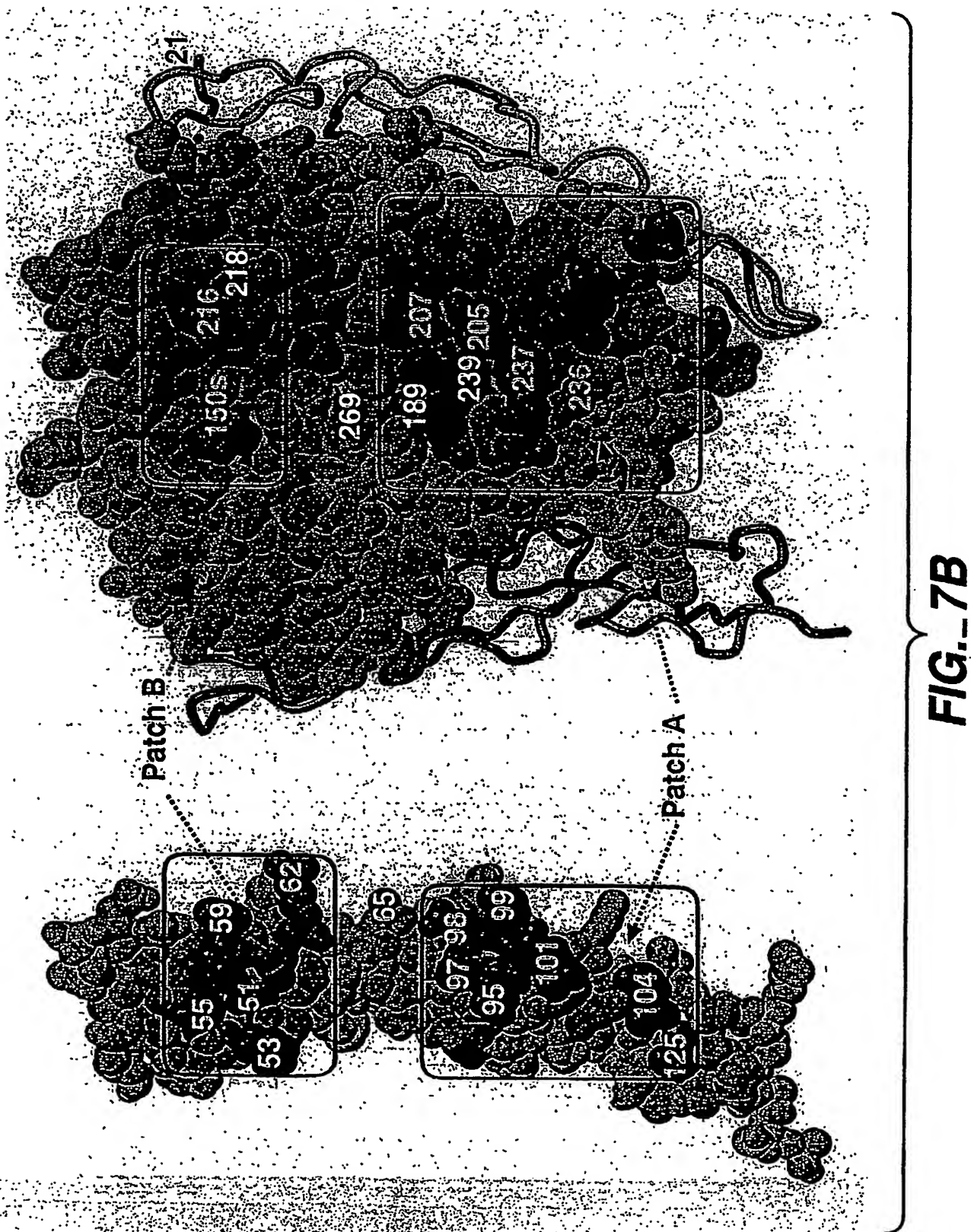
Receptor Sequences:

DR5 ⁹⁰TFREEDSP_{EM}CRKCR¹⁰⁴
 DR4 TFRNDNSA_{EM}CRKCS

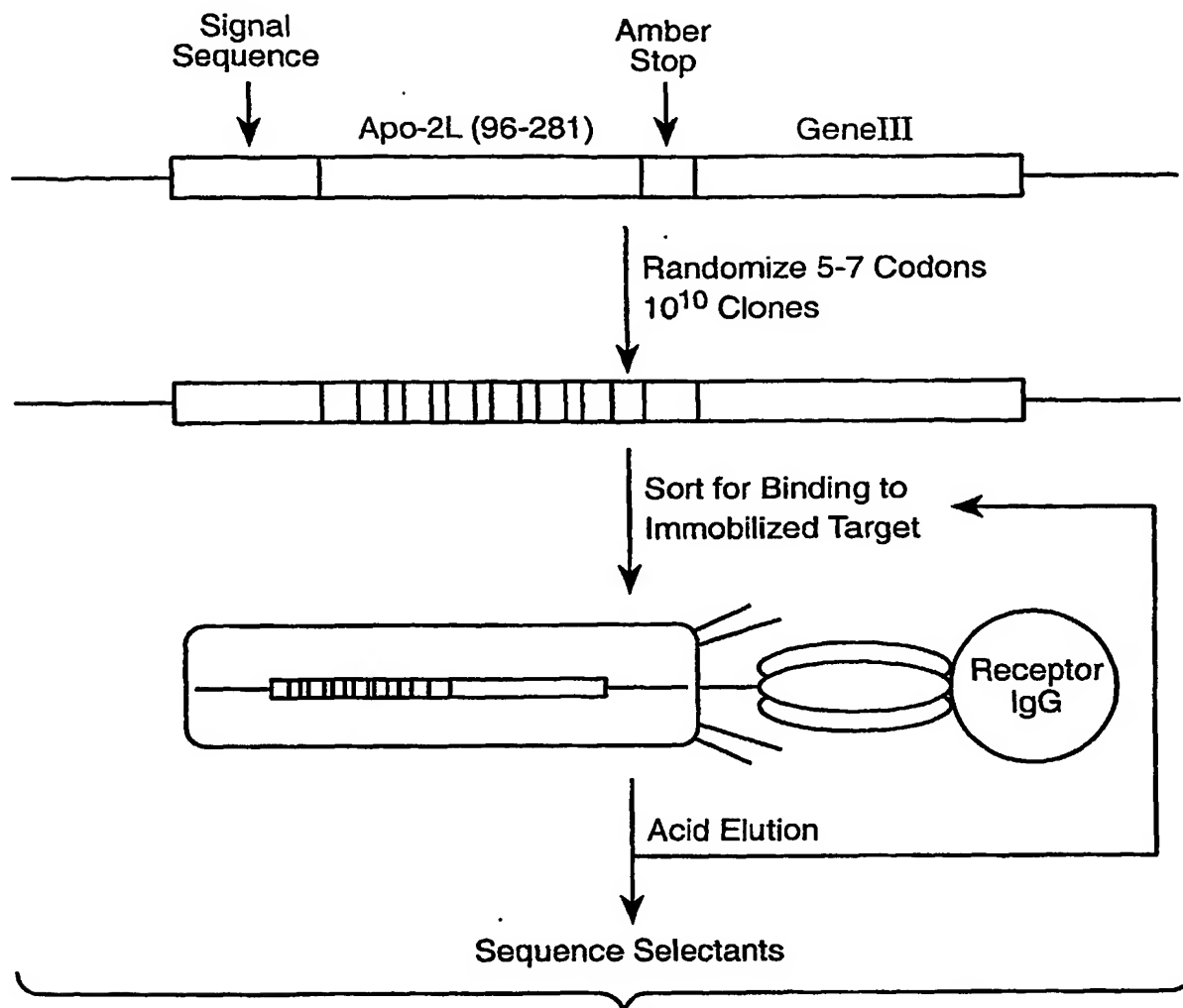
Apo2L = Dark Shading
 DR5 = Light Shading

FIG. 7A

13 / 28



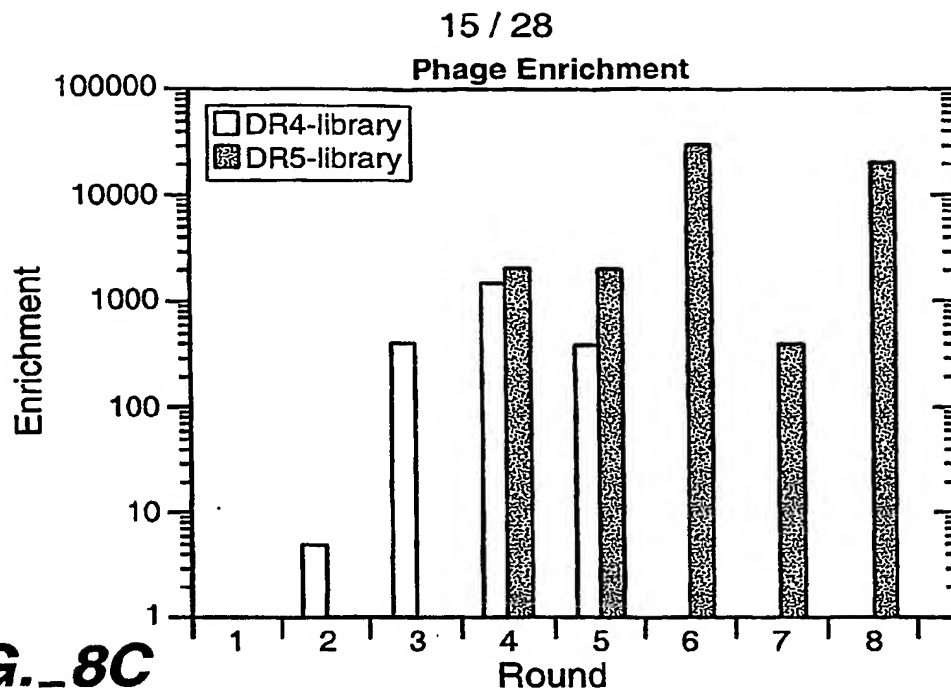
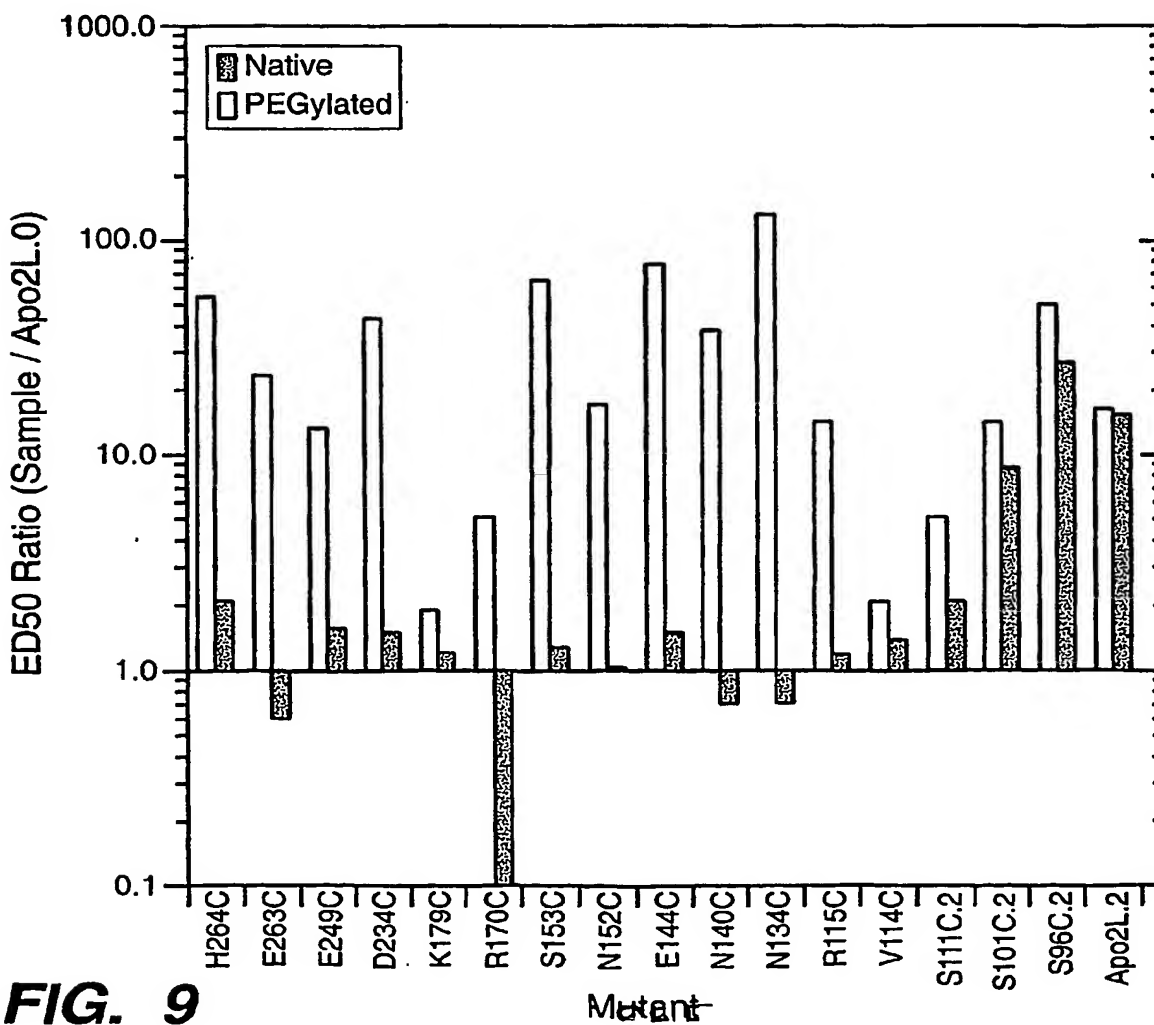
14 / 28

**FIG. 8A****Apo-2L Phage Display Libraries**

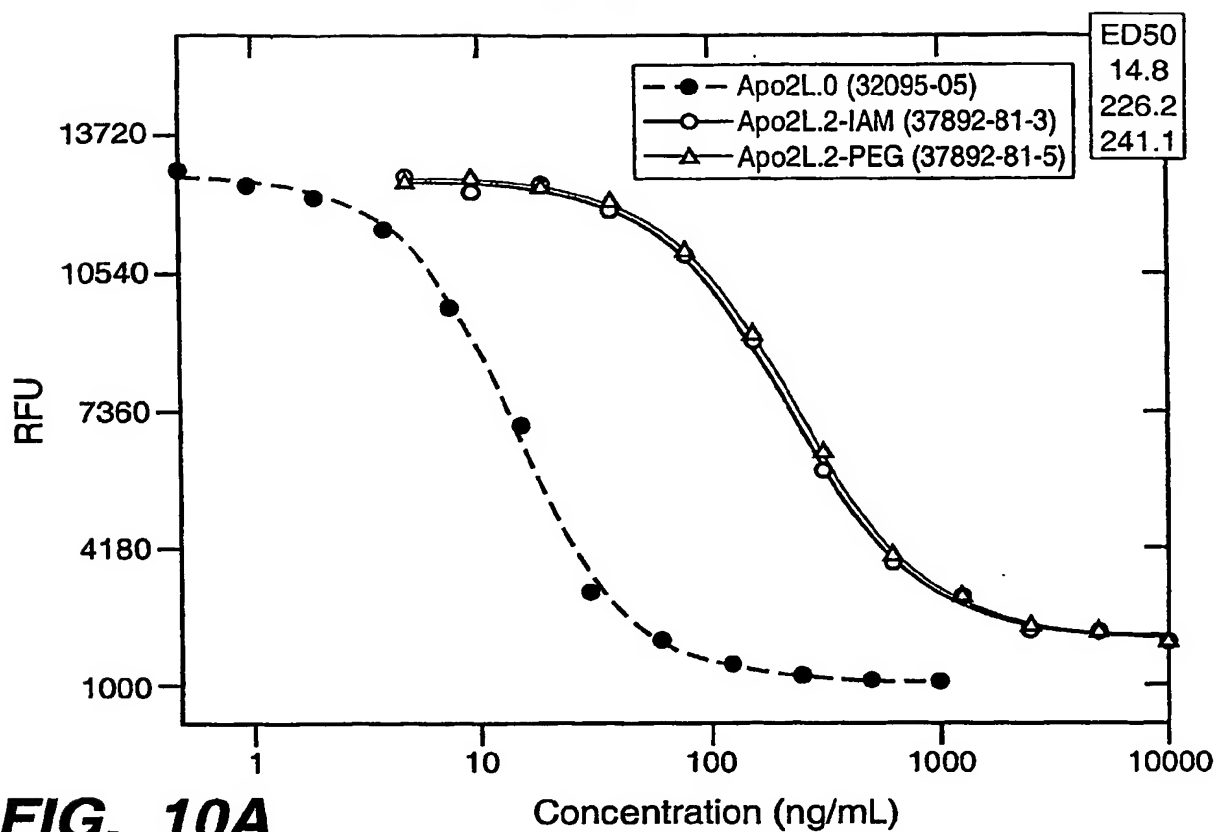
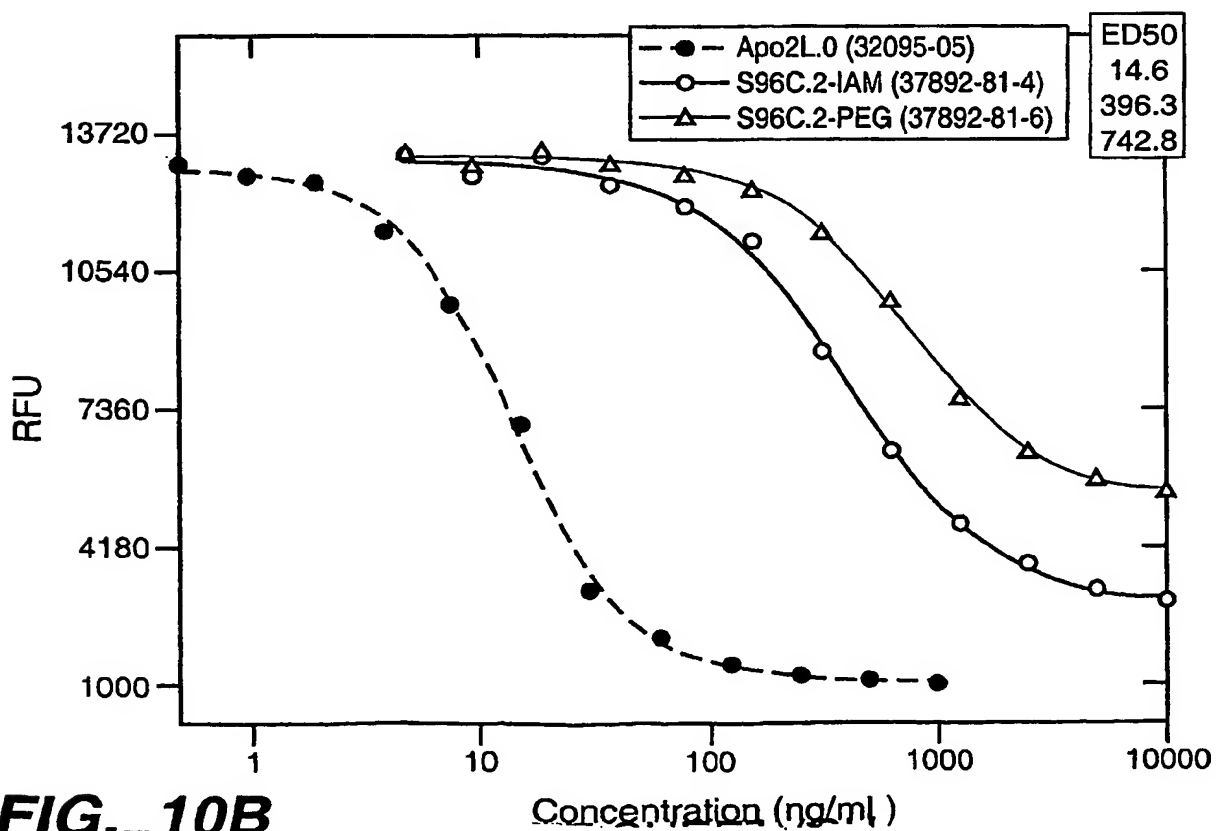
	DR5	DR4
199LB		
Y189	E98	E98
R191	M99	M99
Q193	T90	T90
N199	R104	S104
K201	R101	R101
Y209	E98	E98

• Hard Randomize Libraries: Sort Against DR4 or DR5 +/- Competitor.

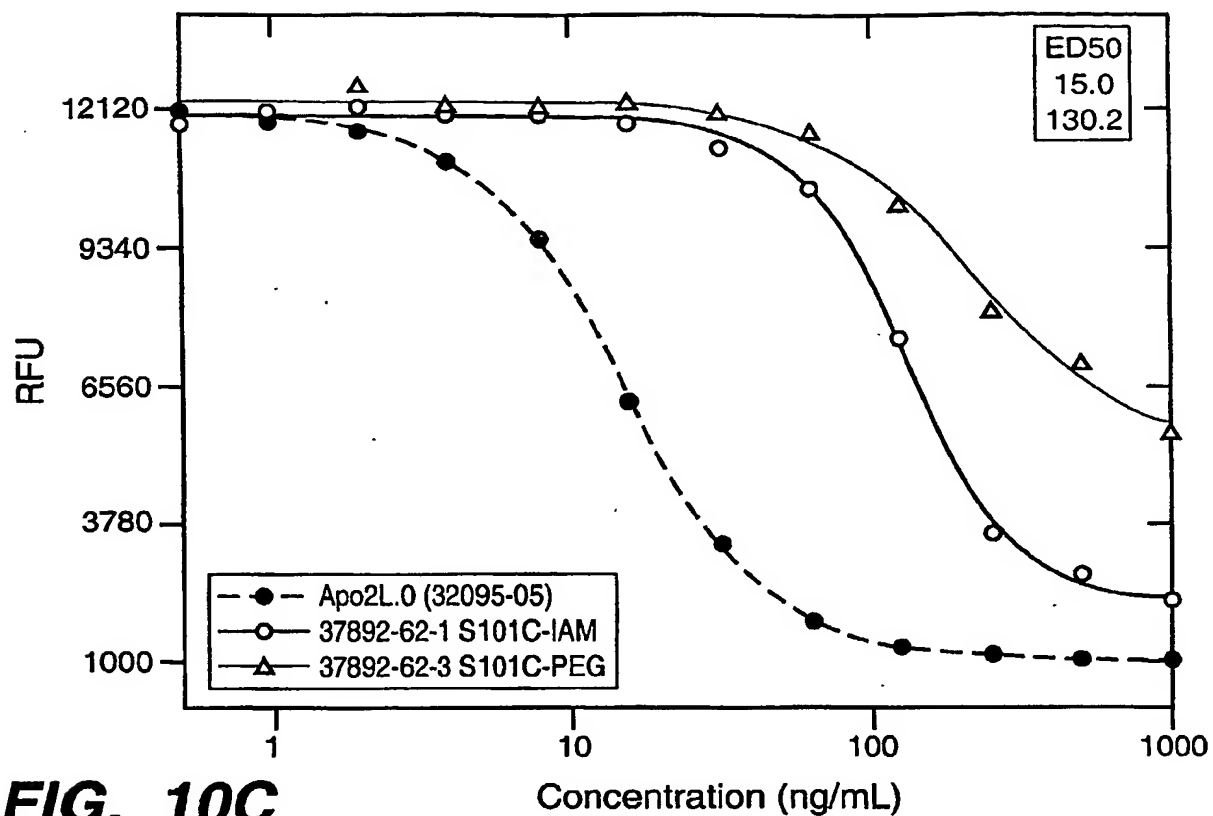
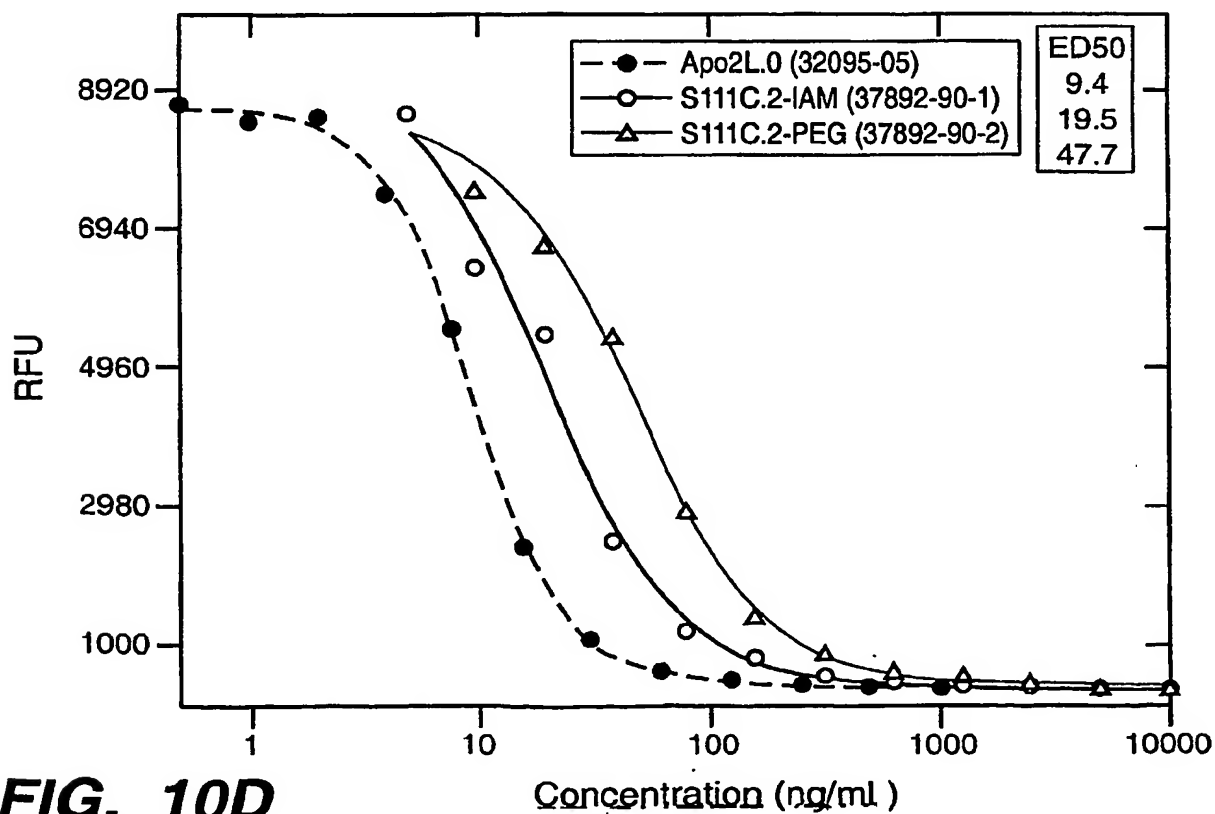
FIG. 8B

**FIG. 8C****FIG. 9**

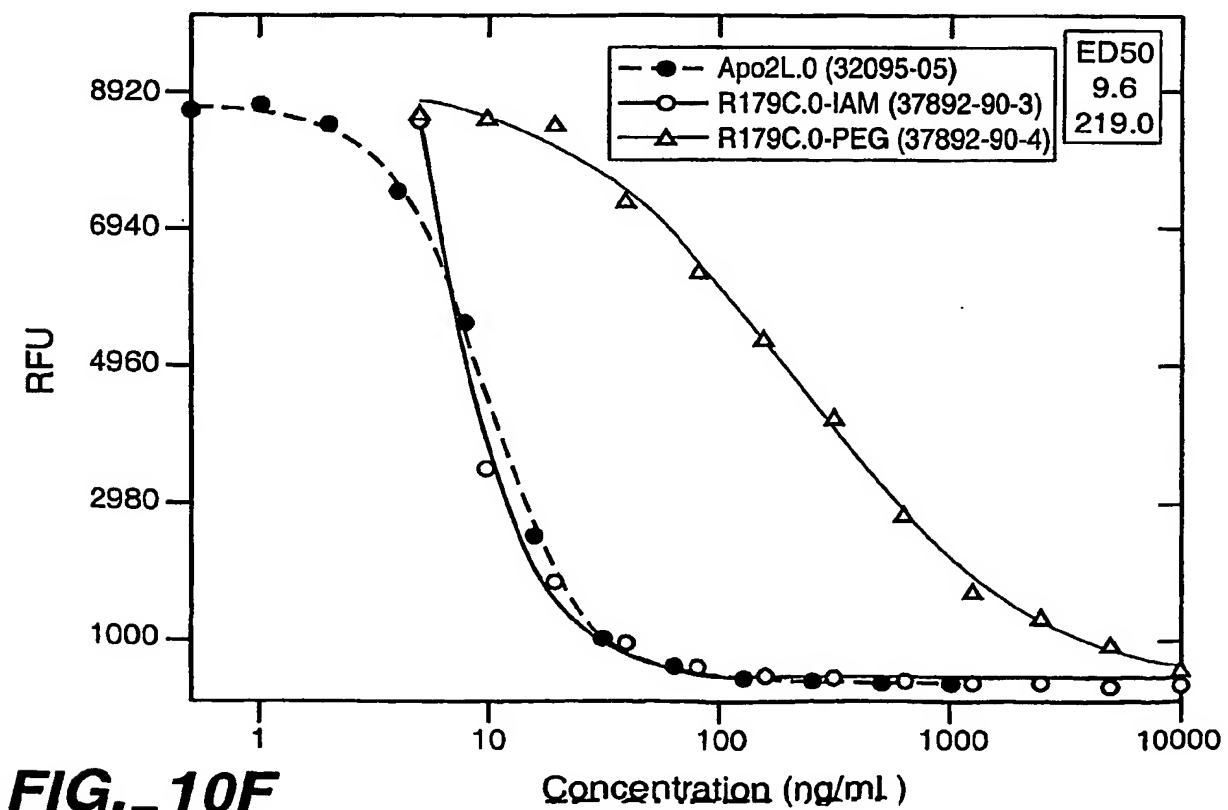
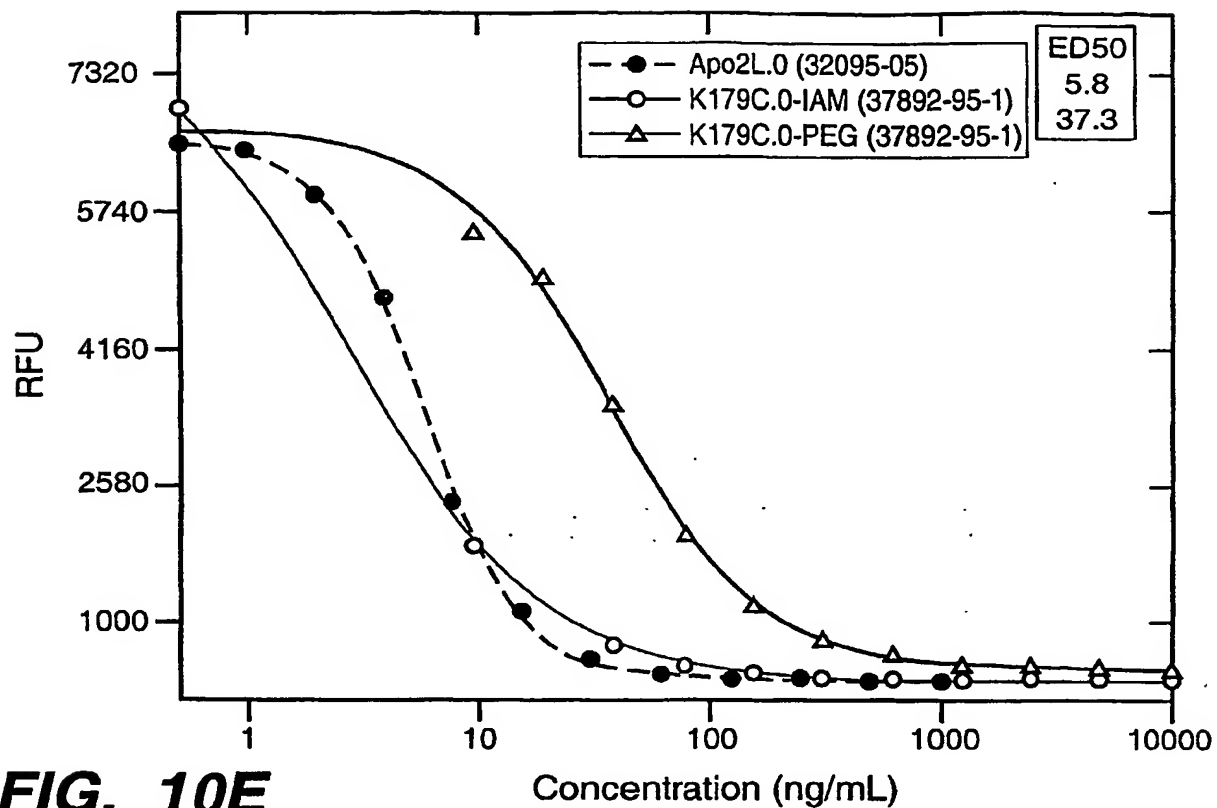
16 / 28

**FIG. 10A****FIG. 10B**

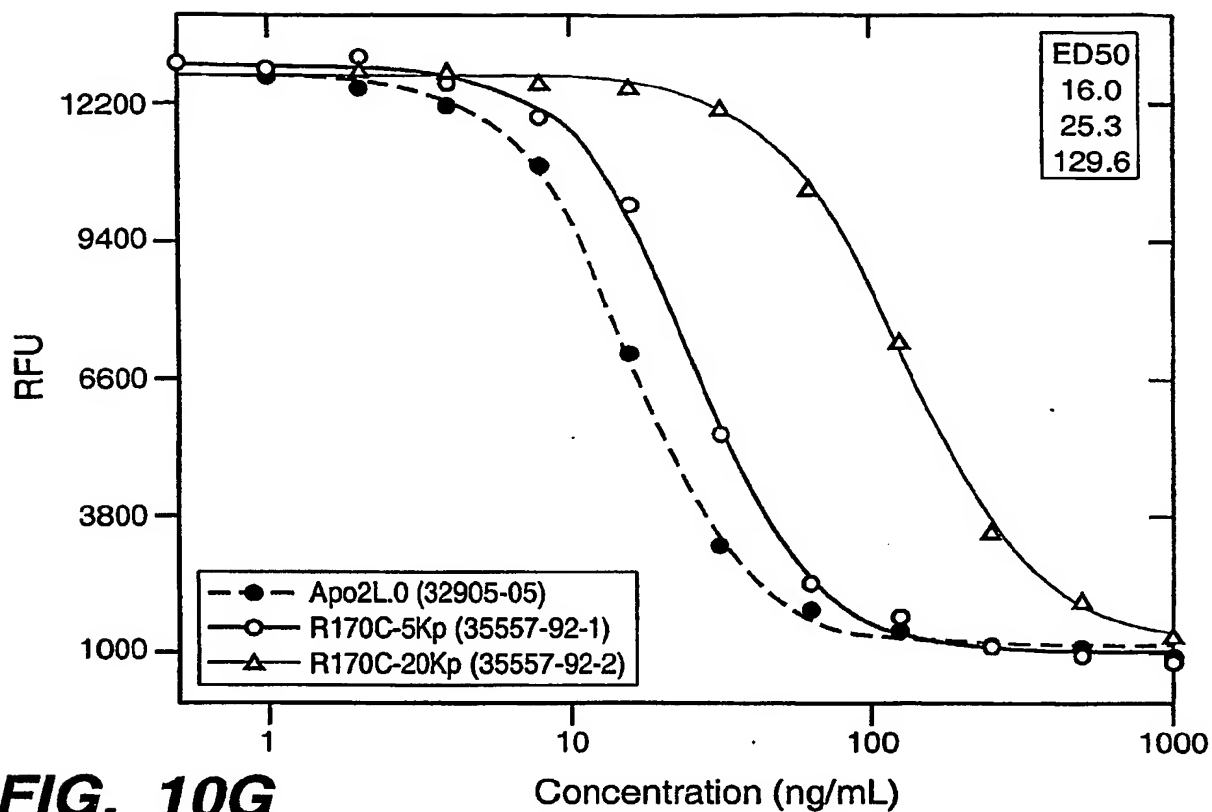
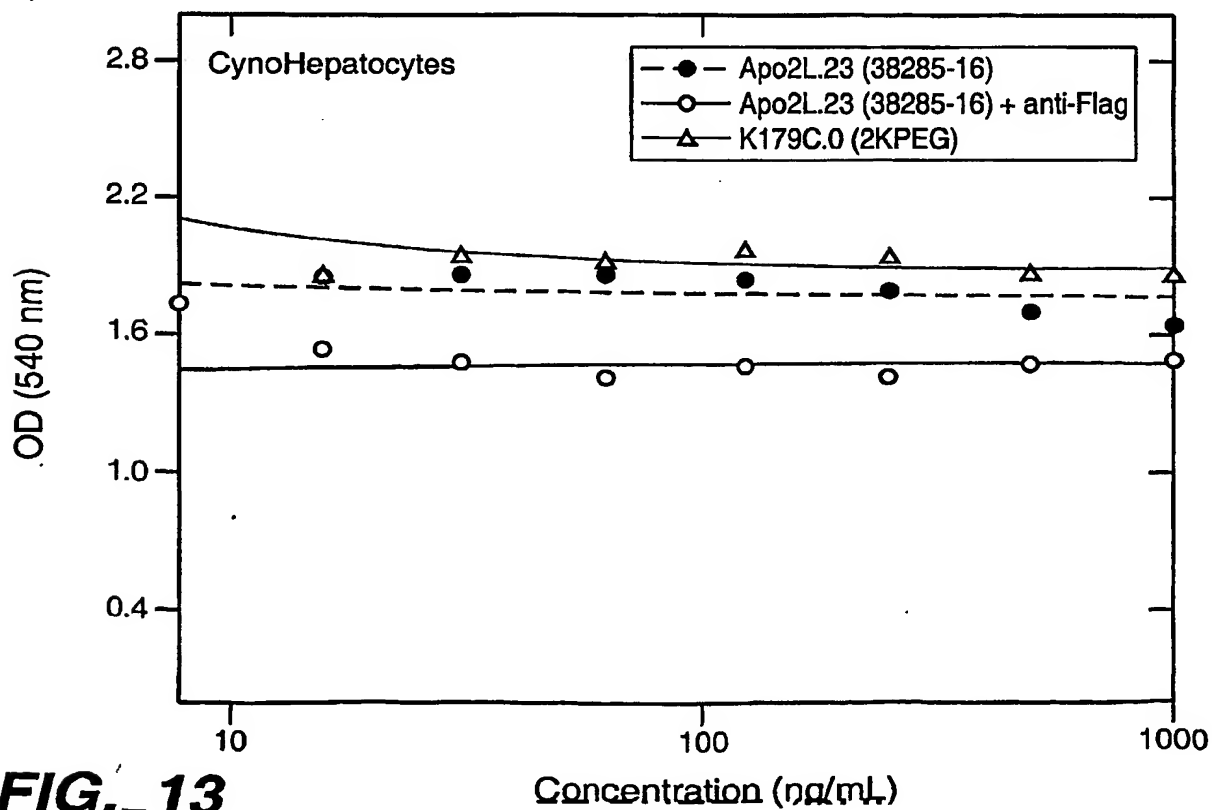
17 / 28

**FIG. 10C****FIG. 10D**

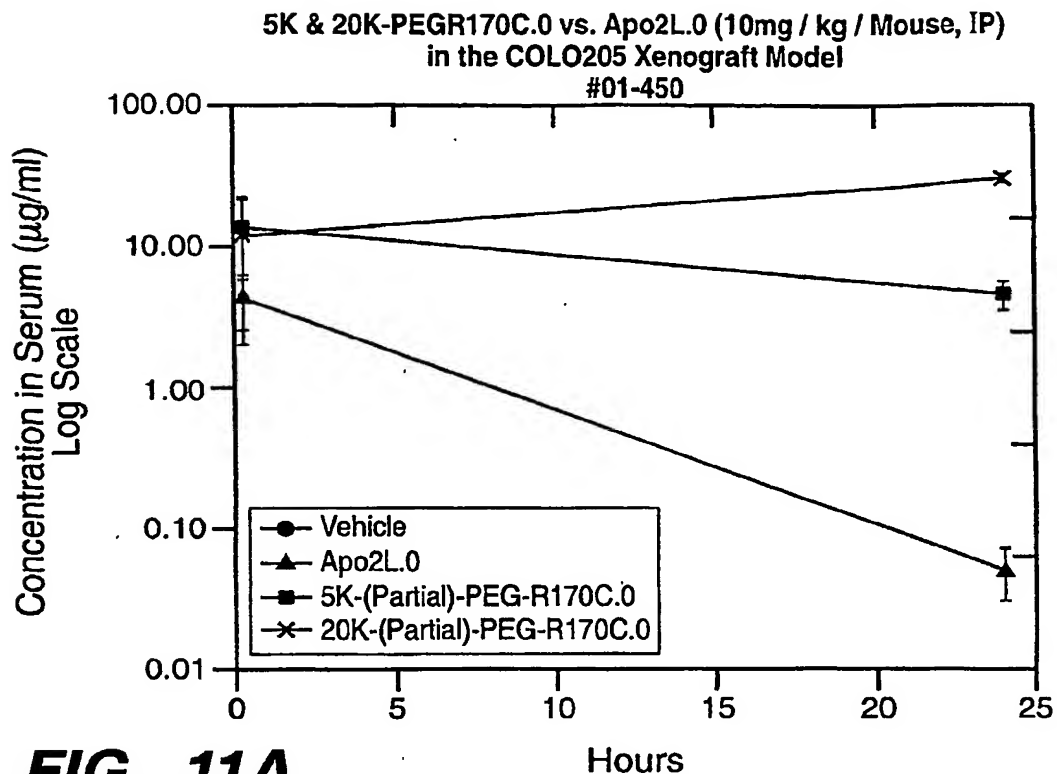
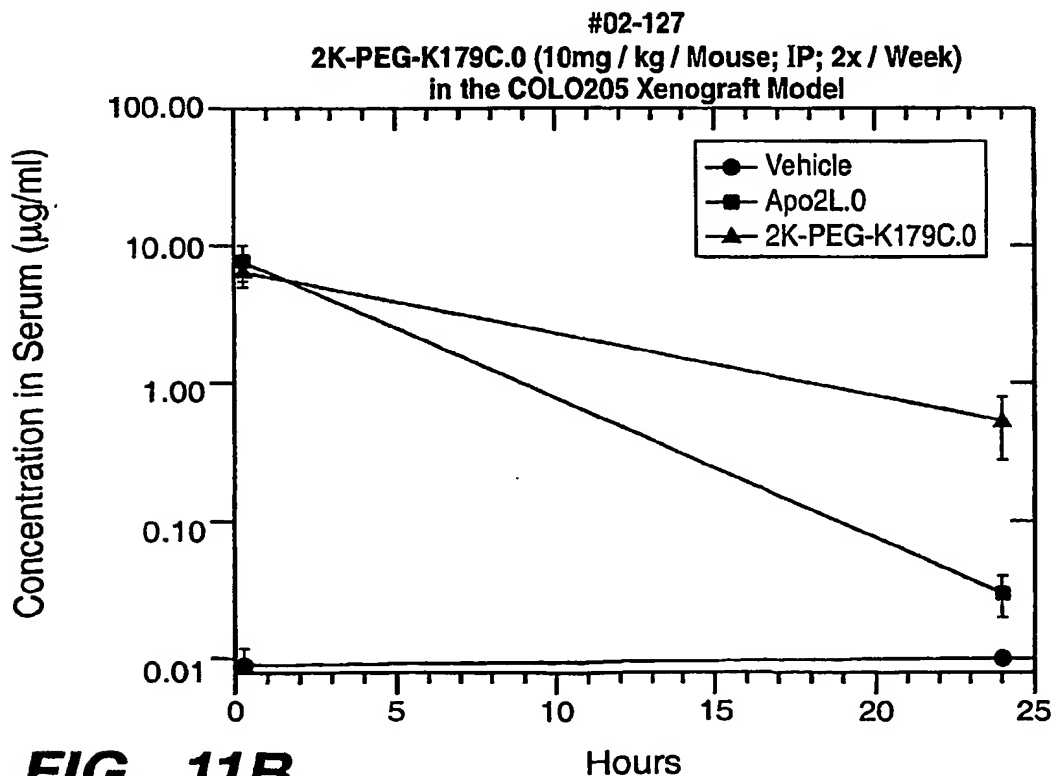
18 / 28



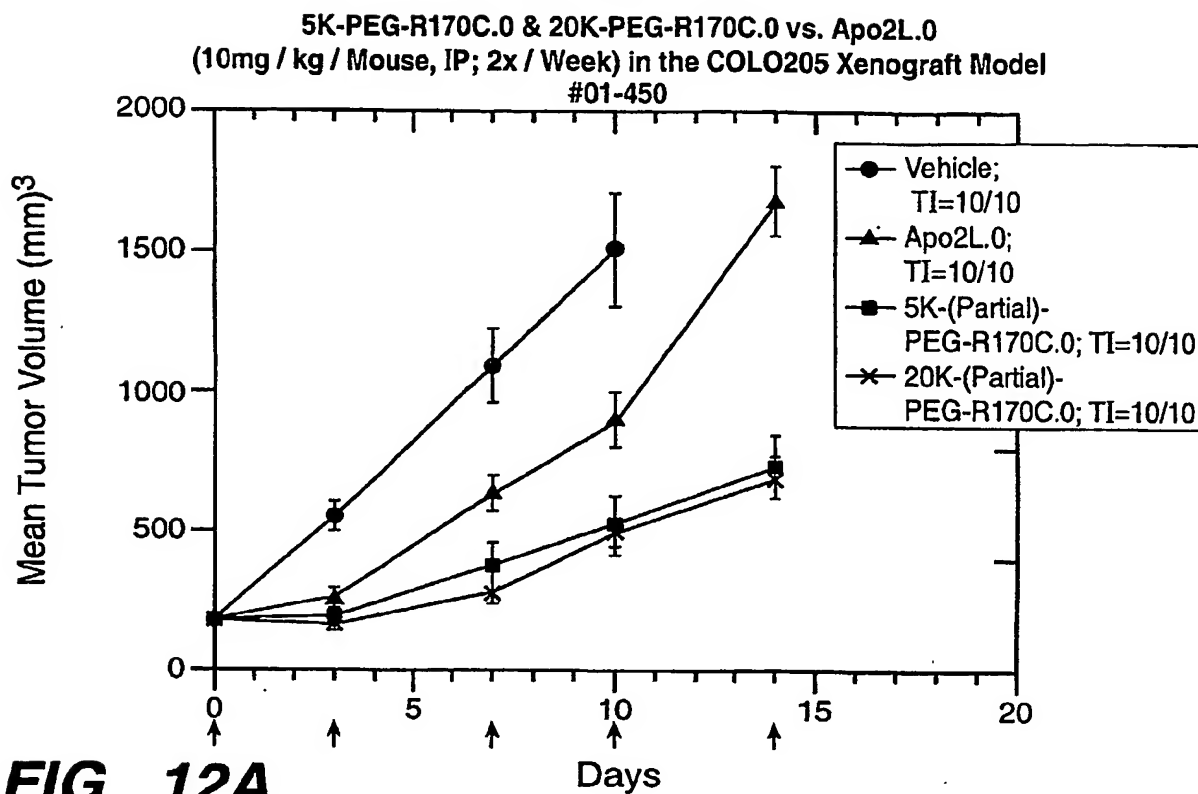
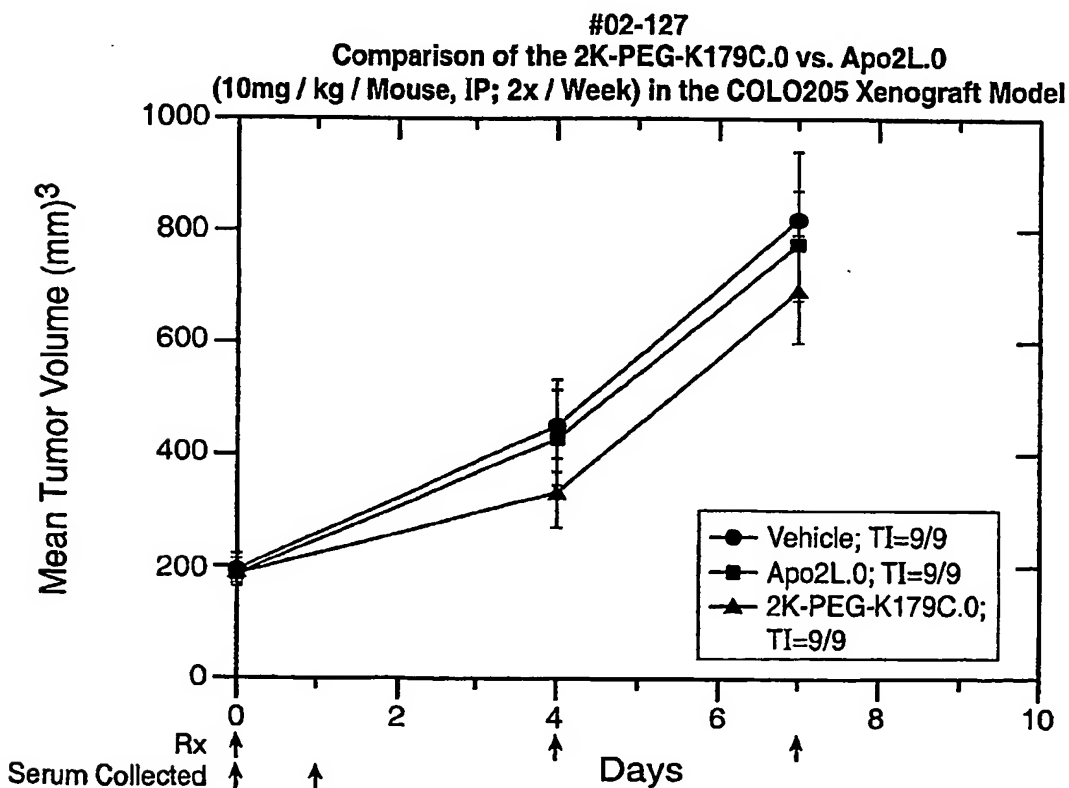
19 / 28

**FIG. 10G****FIG. 13**

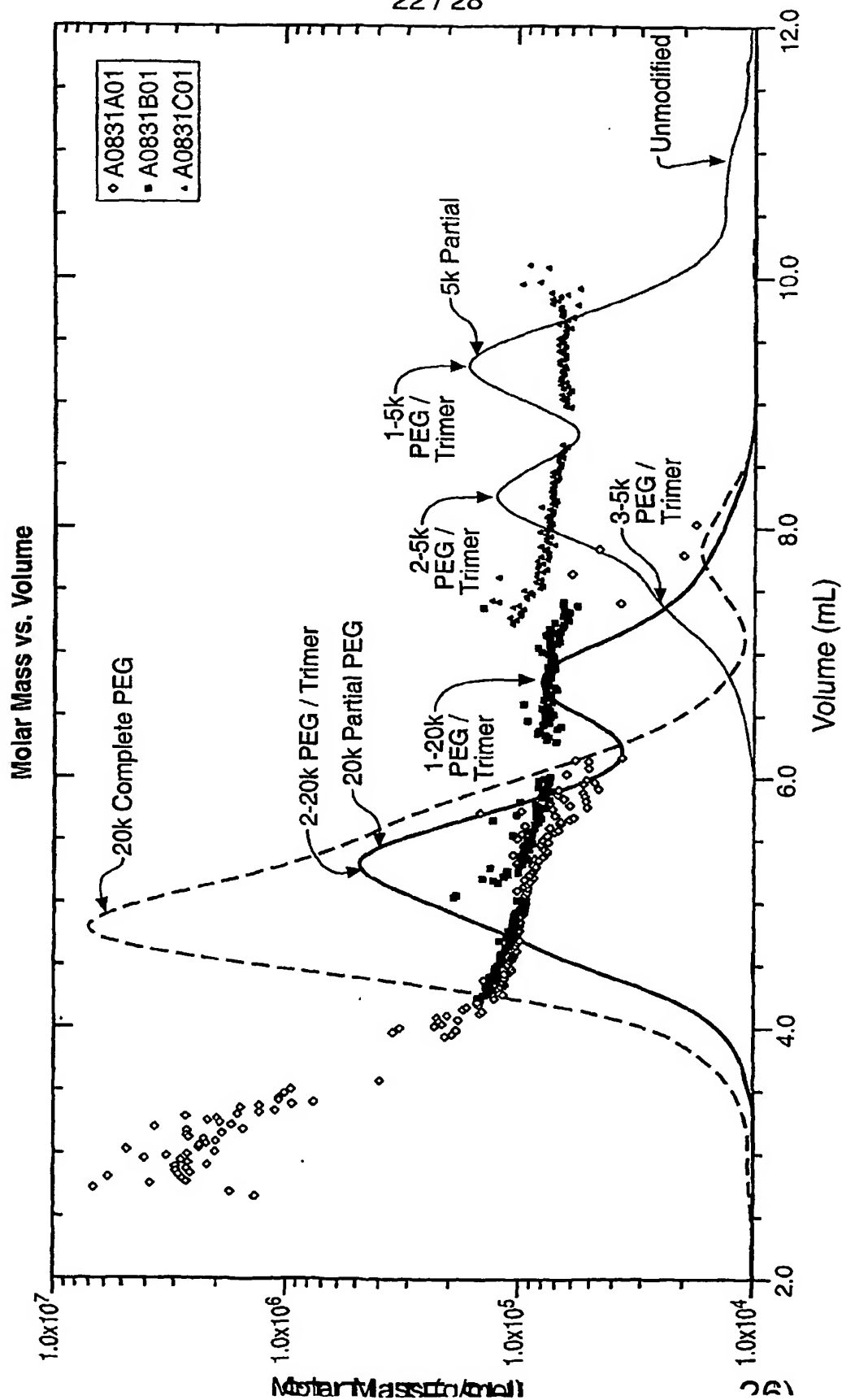
20 / 28

**FIG. 11A****FIG. 11B**

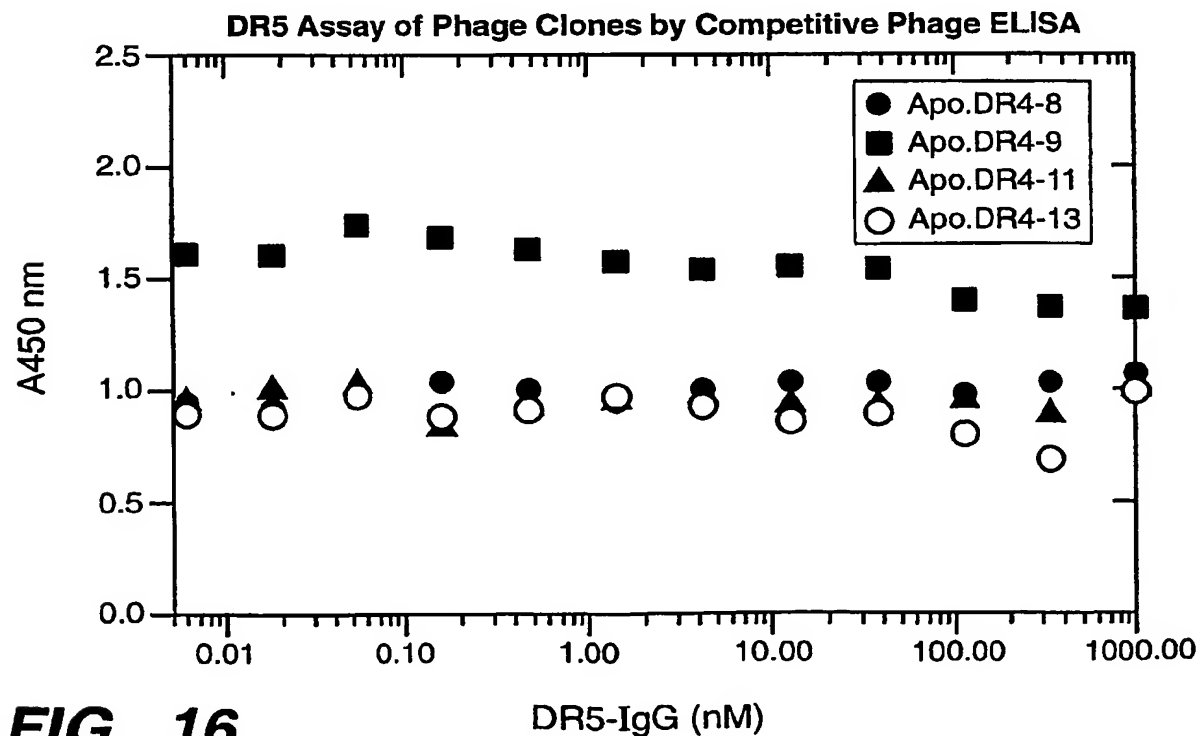
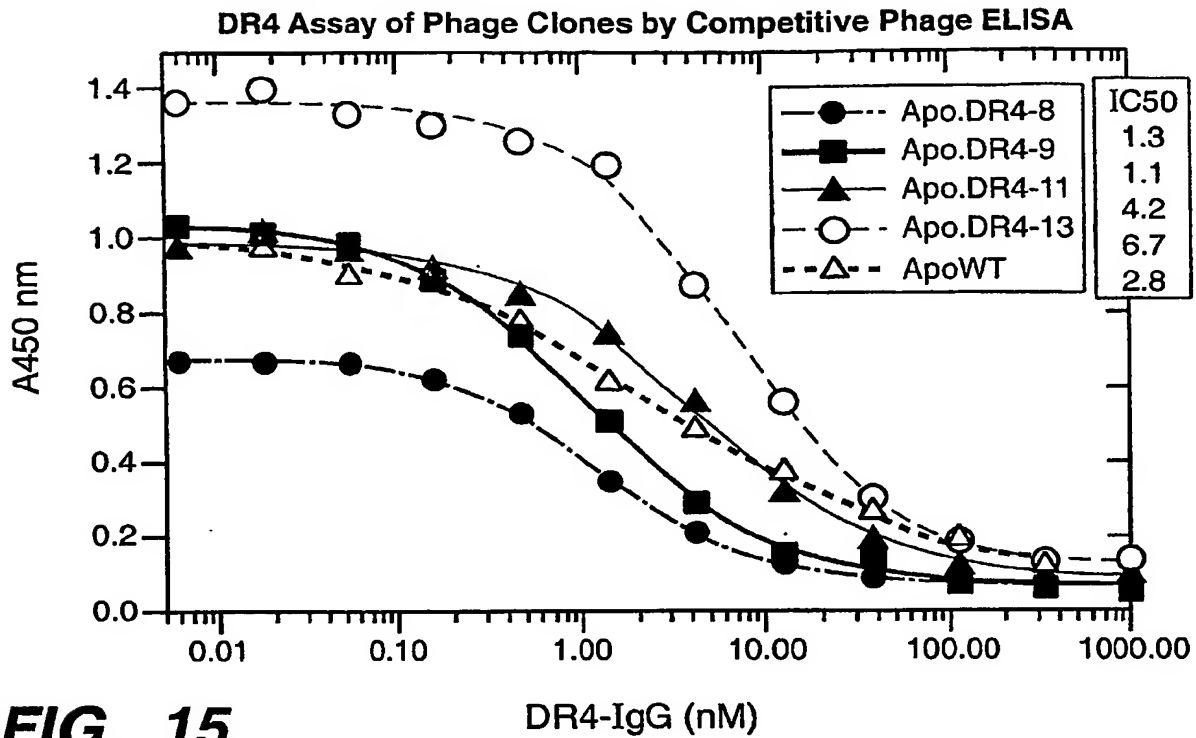
21 / 28

**FIG. 12A****FIG. 12B**

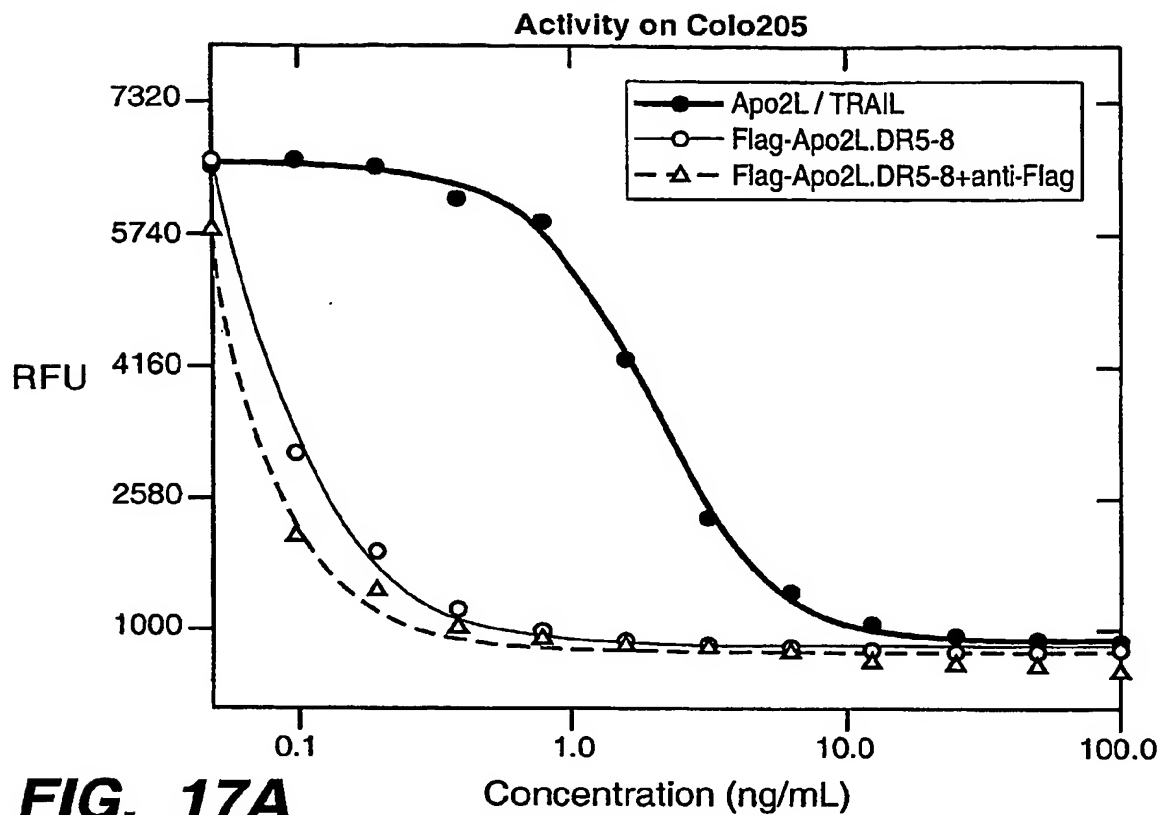
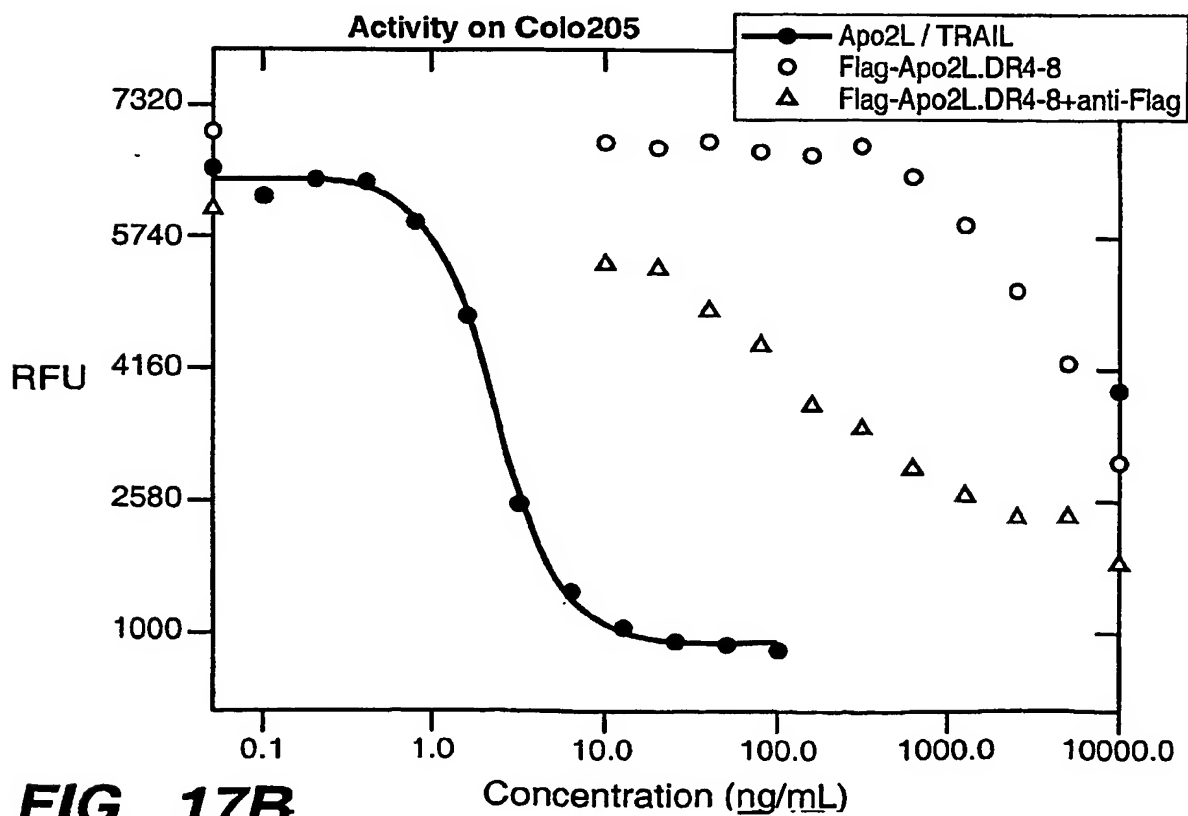
22 / 28

**FIG. 14**

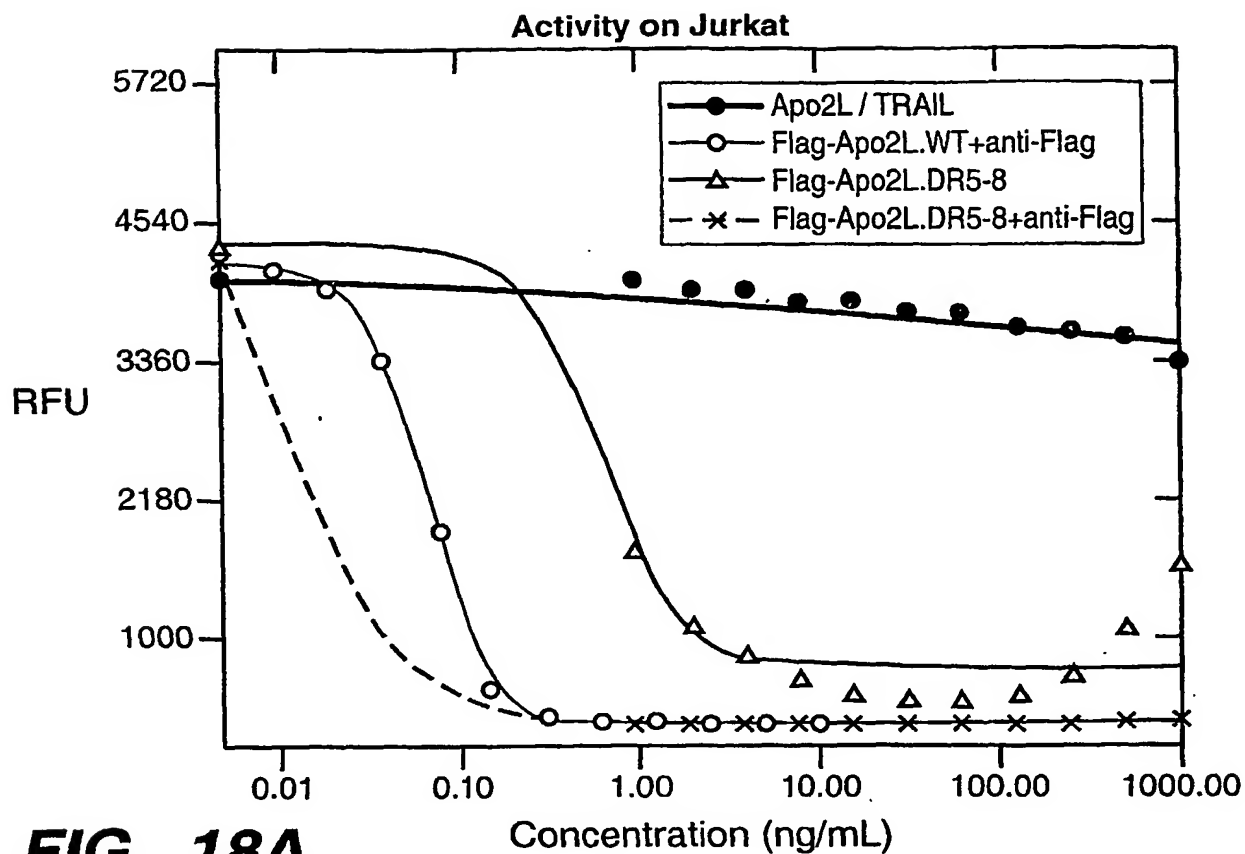
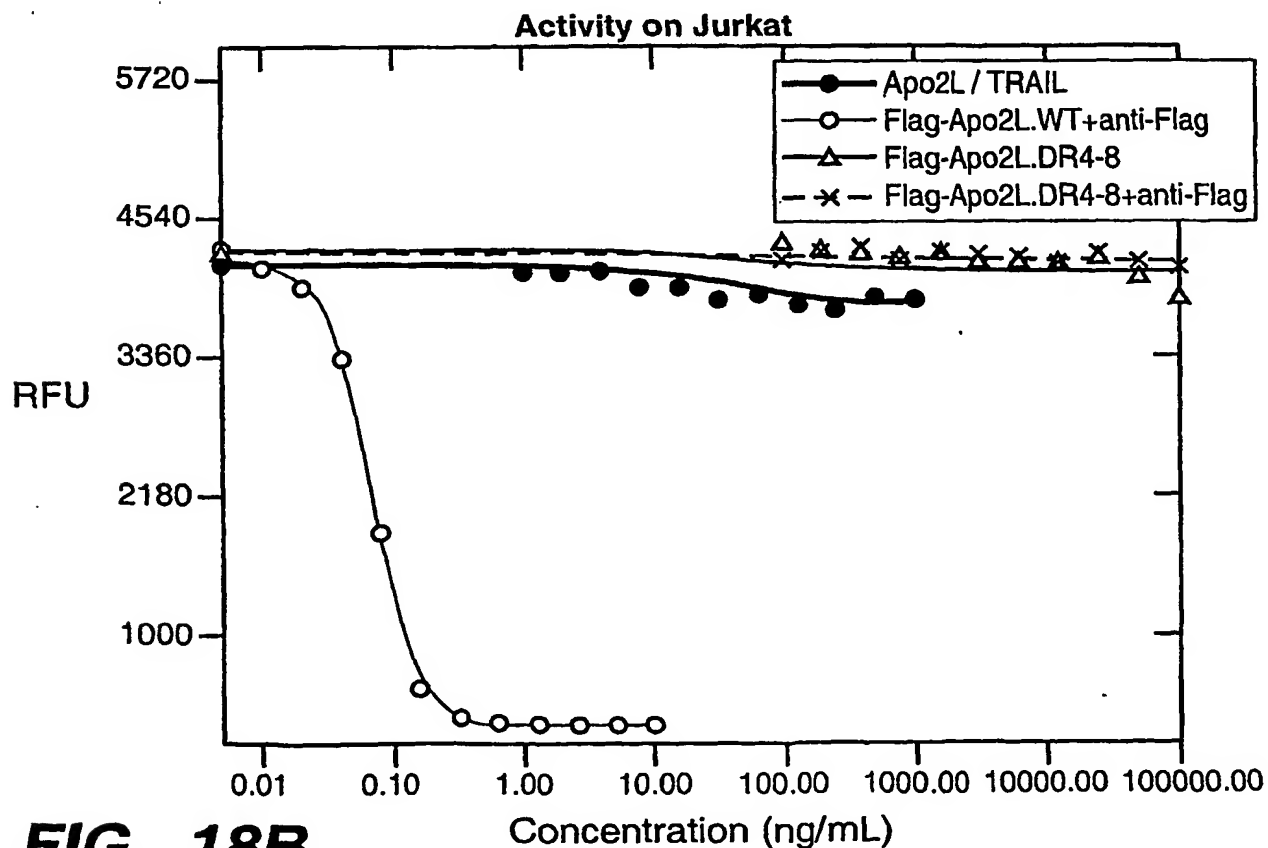
23 / 28



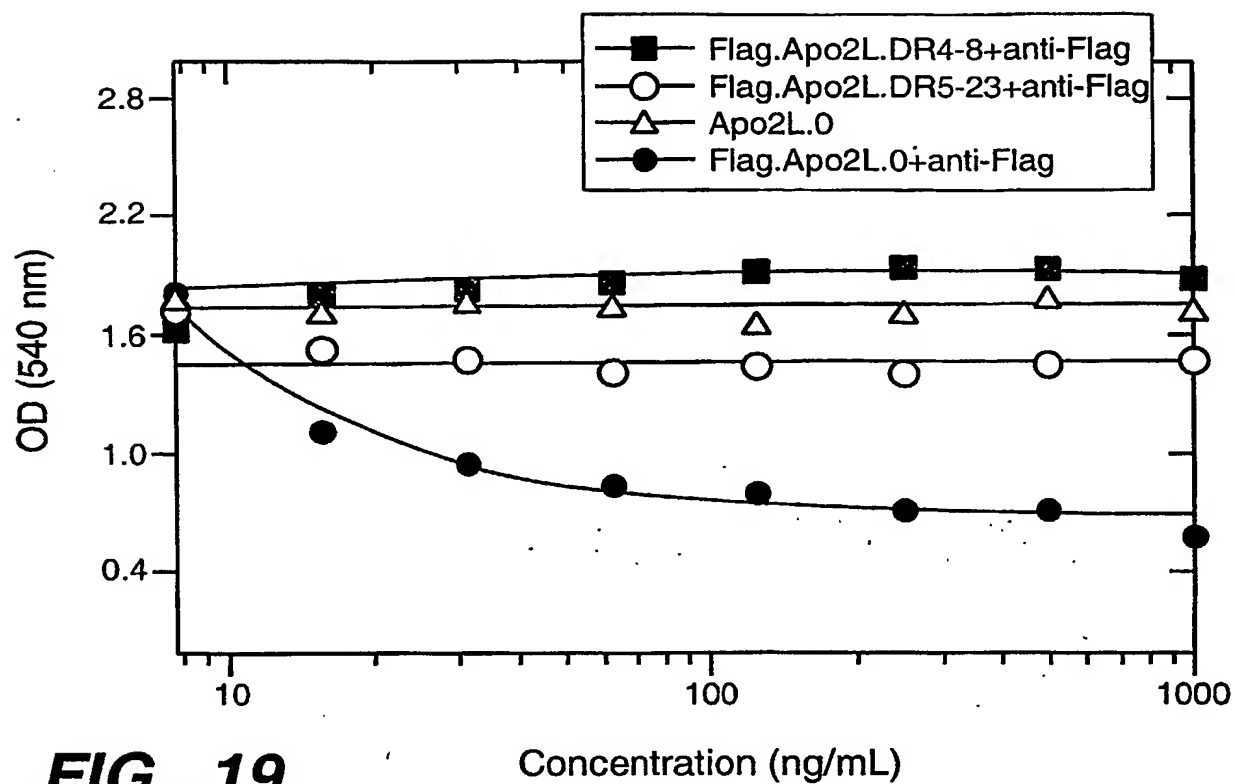
24 / 28

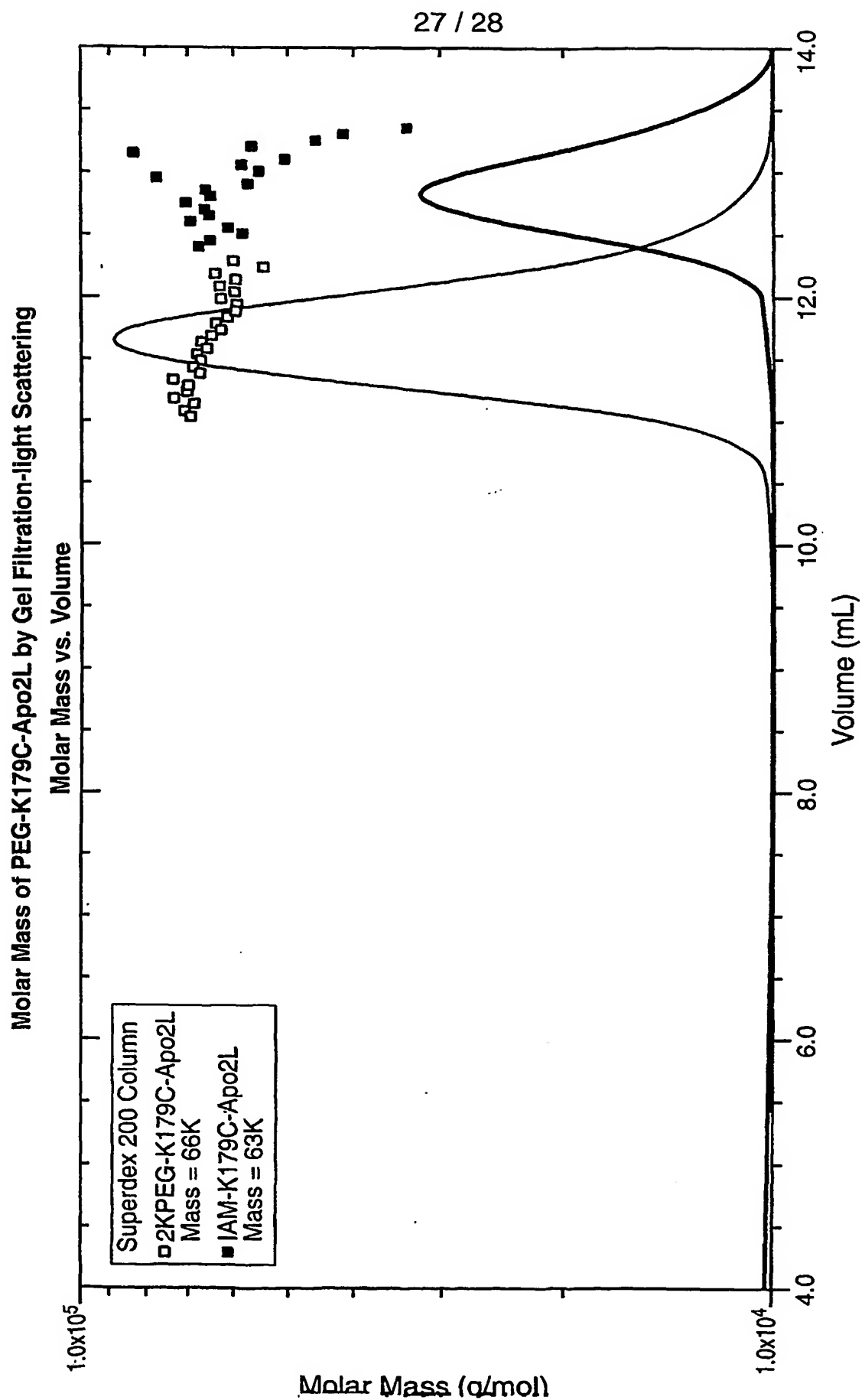
**FIG. 17A****FIG. 17B**

25 / 28

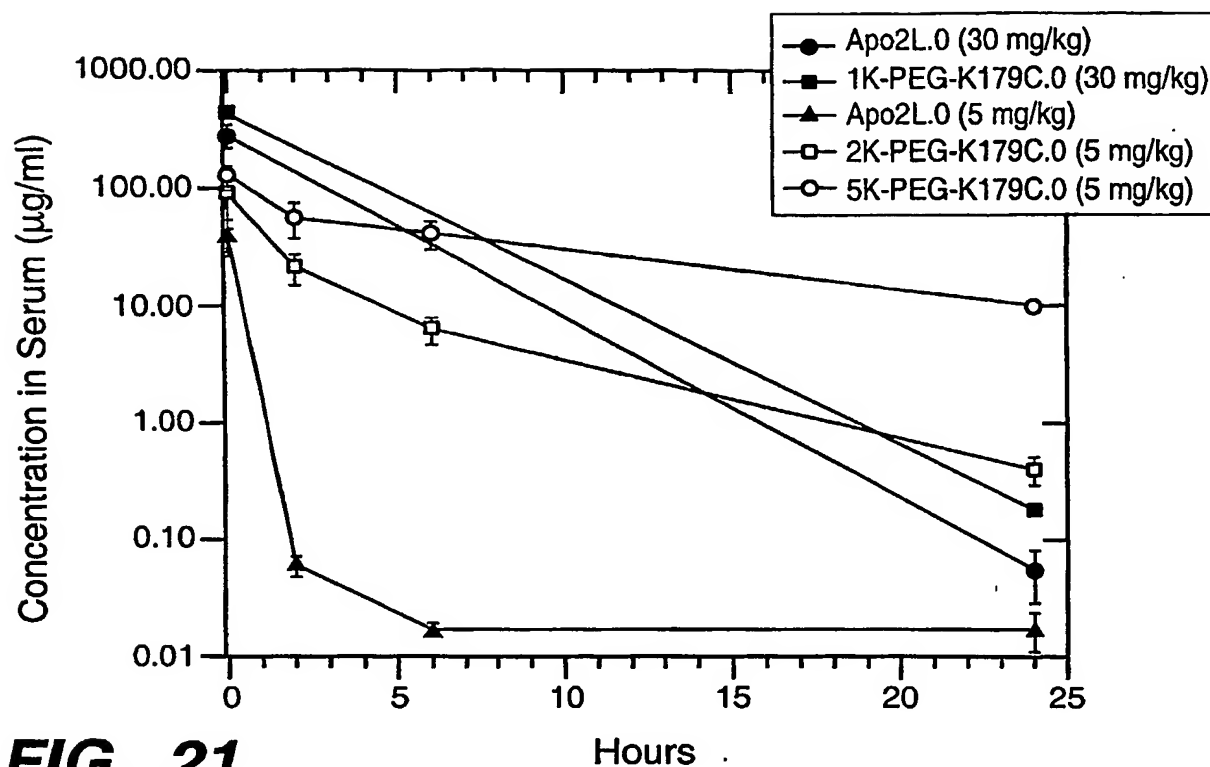
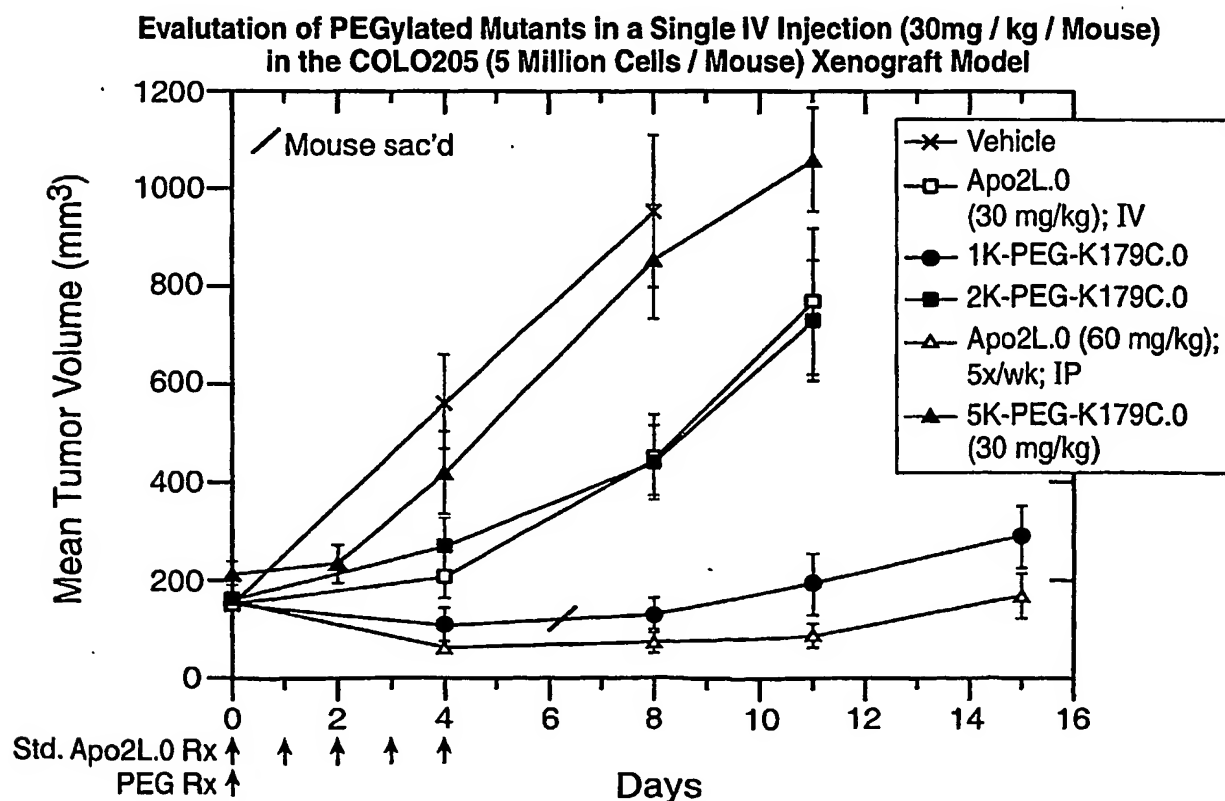
**FIG. 18A****FIG. 18B**

26 / 28

**FIG. 19**

**FIG. 20**

28 / 28

**FIG. 21****FIG. 22**

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